

HEBBRAND

*Quality
Tools*

A stylized illustration of a man in a suit, holding a large, 3D, striped number '2'. The man is depicted in a dark, solid color, and the number '2' is rendered with a striped pattern. The background is a solid orange color.

**CATALOG
NO. 47-M**

DISTRIBUTED BY

Decorative curved lines at the bottom of the page, consisting of several concentric, slightly wavy lines that create a sense of depth and movement.

The Heibron Company

LITCHFIELD, OHIO

June 4, 1934

Forwarded pursuant to the Code of Fair Competition
for the Wrench Manufacturing Industry
approved April 28th 1934

DISTRIBUTION: LITCHFIELD 1934

Applying to all tools grouped in pages 5 to 22 in-
cludes of new materials catalog No. 47-M.
Tools included illustrated on pages 31 and 32
subject to an extra 10% discount on quantities of
one or more of a specified size.

SHIPPING TERMS

F.O.B. shipping point with FULL FREIGHT ad-
vanced on shipments of 100 lbs. or over to any
point in the Continental United States.

PAYMENT TERMS

10% cash discount on or before the 15th day of pay-
ment of invoices dated from the 1st to the 15th
inclusive, and 2% discount 10th day of pay-
ment of invoices dated from the 16th to 31st in-
clusive. Net 30 days.

MINIMUM INVOICE CHARGE

An additional charge of 50c will be made on each
shipment amounting to less than \$10.00. Orders
for repair or replacement parts excluded.

GUARANTEE

Returned to industry code. All express shipments
are withdrawn and listed to dealer in return
and material. No claims will be allowed
until after shipment is received at the factory.
Shipping charges prepaid, and determination of
loss of defect.

EQUIPMENT SALES

The foregoing discount does not apply to equip-
ment sales. Questions on such shipments are
subject to special prices upon written application.
None.

SUGGESTED RETAIL PRICE

Tools on pages 26 to 32 inclusive discount 10%.
All other tools in catalog 47-M. discount 10%.
This price sheet supersedes all previous quotations
and is subject to change upon requisition.

The Herbrand Company

FREMONT, OHIO

June 4, 1934

**Issued pursuant to the Code of Fair Competition
for the Wrench Manufacturing Industry,
approved April 5th 1934**

DISTRIBUTORS' DISCOUNT 70%

Applying to all tools grouped in pages 5 to 92 inclusive of new miniature catalog No. 47-M. Crank Handles, illustrated on pages 84 and 86, subject to an extra 10% discount on quantities of 500 or more of a specified size.

SHIPPING TERMS

F.O.B. shipping point with FULL FREIGHT allowed on shipments of 100 lbs., or over, to any point in the Continental United States.

PAYMENT TERMS

2% cash discount on or before the 25th for payment of invoices dated from the 1st to the 15th inclusive, and 2% discount 10th prox. for payment of invoices dated from the 16th to 31st inclusive. Net 30 days.

MINIMUM INVOICE CHARGE

An additional charge of 50c will be made on each shipment amounting to less than \$5.00 net. Orders for repair or replacement parts excepted.

GUARANTEE

Pursuant to industry code, all express guarantees are withdrawn and limited to defects in workmanship and material. No claims will be allowed until after shipment is received at the factory, shipping charges prepaid, and determination by us of defect.

EQUIPMENT SALES

The foregoing discount does not apply to equipment sales. Quotations on such requirements are subject to special prices upon definite specifications.

SUGGESTED RESALE PRICE

Tools on pages 76 to 78 inclusive, discount 50%. All other tools in catalog 47-M, discount 40%.

**This price sheet supersedes all previous quotations
and is subject to change upon republication.**

HERBRAND MODERNIZED TOOLS OF QUALITY



THE TIME TESTED MARK
OF DISTINCTION



SALES OFFICES IN ALL
IMPORTANT TRADING
AREAS

THE HERBRAND COMPANY

"SINCE 1881"

FREMONT, OHIO, U. S. A.

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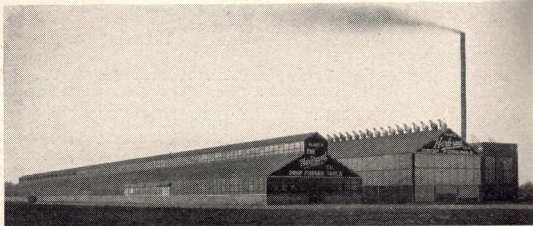
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OVER FIFTY YEARS PROGRESS IN FINE TOOL MAKING

A group of seven modern buildings on a thirty-five acre tract of land houses the latest type equipment for the production of Herbrand Tools of Quality and Distinction. The tool finishing building in the foreground is 740 feet long by 60 feet wide.

Pioneers in the craft of fine tool making, Herbrand has through extensive research, test and application, constantly developed a broader line of the essential tools for the purpose of raising the efficiency of the mechanic to the highest degree. Beginning with the universally popular "Van-Chrome" tools, design, selection of material, accuracy and finish have always been the foundation upon which the supreme excellence of Herbrand quality is built.

Every mechanic appreciates the extra measure of performance reflected in the outstanding features of construction and design which make possible great savings in time, labor and effort. Strength—that vital quality—is attained through careful forging from Chrome Vanadium Steel made to Herbrand's own formula. Extreme care is exercised in heat treatment, employing carefully selected temperatures and timing to insure break-proof hardness.

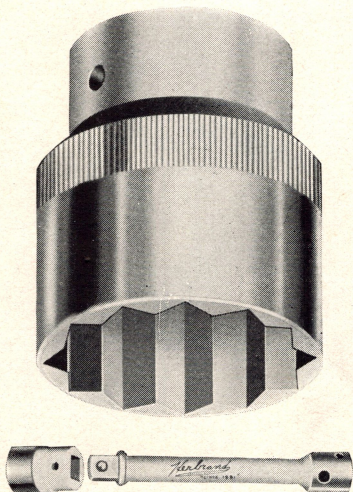
There is a jobber near you who stocks "Van-Chrome" tools. Ask him to show you this complete line which represents the broadest coverage of tool needs at prices commensurate with today's conditions.

Herbrand are sole makers of the following nationally known brands:

"HERBRAND" - "VAN-CHROME" - "MULTIGRIP"
"OBSTRUCTO" - "MULTIHEX" "PROTECTOGRIP"
"MULTIDUTY" - "MULTIFLEX" - "MULTITYPE"

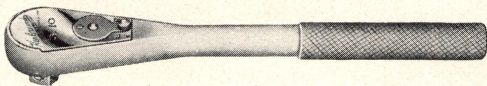
"YOU CAN'T BUY BETTER TOOLS AT ANY PRICE"

Herbrand



THE MODERN HOT FORGED SOCKET WITH POSITIVE LOCK-ON FEATURE

Hot forging insures clean, extra thin, straight side walls and super strength—no chatter marks, no tears, no chips. They are structurally better, lighter in weight and have increased utility, unbreakable strength and unrivaled performance.



THE NEW "VAN-CHROME" RATCHET

Improved Reversible Type

The finger tip control makes it instantly reversible to operate on the 28th of a turn in either direction, with no lost motion. Absolutely trouble-proof, quick-acting and designed with trim, slender lines to operate freely in close quarter places where ordinary ratchets can't reach. Available in two sizes.



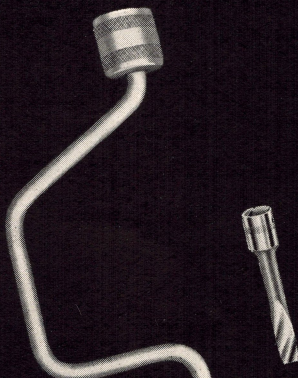
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J-312 To J-324



J-212 To J-216



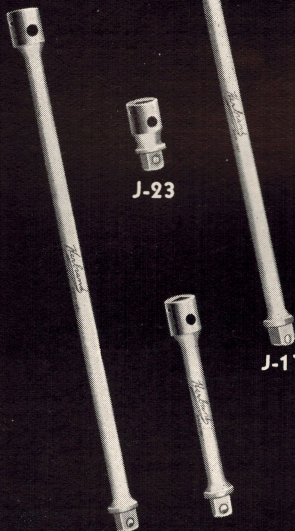
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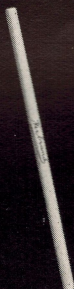


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J-17



J-33



J-21



J-35



J-36

"VAN-CHROME" JUNIOR SERIES SOCKETS

$\frac{3}{8}$ " Square Drive

Hot Forged from Chrome Molybdenum Steel

Small—Slender—Straight—Thinwalled—yet mighty in power of performance. Finished in satin nickel with mirror polished side walls. All have lock-on feature.

12 Point Sockets			Flexible 12 Point Sockets		
Socket No.	Size Openings	List Each	Socket No.	Size Openings	List Each
J-112	$\frac{3}{8}$	\$.40	J-312	$\frac{3}{8}$	\$ 2.10
J-114	$\frac{7}{16}$	.40	J-314	$\frac{7}{16}$	2.10
J-116	$\frac{1}{2}$	.40	J-316	$\frac{1}{2}$	2.10
J-118	$\frac{9}{16}$	.40	J-318	$\frac{9}{16}$	2.10
J-120	$\frac{5}{8}$	.40	J-320	$\frac{5}{8}$	2.10
J-122	$\frac{11}{16}$	.50	J-322	$\frac{11}{16}$	2.10
J-124	$\frac{3}{4}$	.50	J-324	$\frac{3}{4}$	2.10

8 Point Sockets		
Socket No.	Size Openings	List Each
J-212	$\frac{3}{8}$	\$.40
J-214	$\frac{7}{16}$	.40
J-216	$\frac{1}{2}$	.40

The last word in sockets—12-point sockets and universal joints combined. Turn in a short radius. Swing over to 90° angle—Short and thin—Hot Forged—Straight Side Walls.

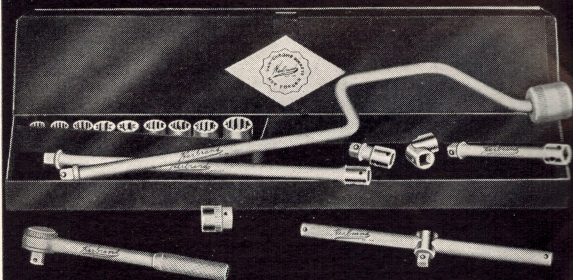
JUNIOR SERIES HANDLES AND ATTACHMENTS

Correctly designed to deliver the utmost speed and ease of handling. All unnecessary weight and clumsiness is eliminated.

Part No.	Description	List Each
J-10	IMPROVED JUNIOR RATCHET HANDLE, 6 $\frac{5}{8}$ " long, instantly reversible to operate the 20th of a turn either right or left. Narrow head and slender handle for greater accessibility.....	\$3.70
J-13	FLEXIBLE OFFSET HANDLE, 8 $\frac{5}{8}$ " long, a flex handle, swivel handle, an offset handle, a T handle and a nut spinner all in one. The drive tip is held firmly at any angle.....	
J-17	SPEEDER HANDLE, 17" long, forged solid, designed for extra speed and more clearance.....	2.20
J-21	SLIDING T HANDLE, 6" long. The forged head slides flush to the ends for use as an offset wrench and a friction ball holds the head firmly at any point on the bar.....	1.50
	EXTENSIONS, Heads forged with a square drive opening and cross drilled for use of J-33 bar.	1.10
J-23	EXTENSION, 1 $\frac{1}{2}$ " long, forged solid.....	.50
J-27	EXTENSION, 5" long, forged solid.....	.70
J-29	EXTENSION, 11" long, forged solid.....	.90
J-33	T HANDLE BAR, 6 $\frac{1}{2}$ " long, used to form a T handle with all Herbrand bars and attachments.	.20
J-35	UNIVERSAL JOINT, improved, short coupled, positive locking. Reaches where others fail.....	2.00
J-36	SPRING STABILIZER, slides over universal joint for conversion into a flexible knuckle.....	.15
J-37	SOCKET SCREW DRIVER, 3 $\frac{1}{2}$ " long. For body, top, floor board, pan work and all tight places....	.55



"VAN-CHROME"
FLEX SET No. JA-60 $\frac{1}{2}$
JUNIOR SERIES— $\frac{3}{8}$ " DRIVE



"VAN-CHROME"
SOCKET SET No. JA-61 $\frac{1}{2}$
JUNIOR SERIES— $\frac{3}{8}$ " DRIVE

"VAN-CHROME" JUNIOR SERIES SETS

$\frac{3}{8}$ " Square Drive

The Herbrand "Van-Chrome" Socket Wrench combinations offer a wide and comprehensive selection of improved *Hot Forged* Sockets and Handle Attachments in the Junior, Standard and the Heavy Duty Series. Complete Sets may be easily and inexpensively built to suit individual requirements.

JUNIOR FLEX SET NO. JA-60 $\frac{1}{2}$

This set contains seven *Hot Forged* 12-point sockets with $\frac{3}{8}$ " drive connections and the popular Junior Flex Handle which is always referred to as the handiest tool in the mechanics kit. The Junior T Handle Bar No. J-33 is also included for use with the Flex Handle which is cross drilled for this purpose.

Contents, total of 9 pieces:—7 "Van-Chrome" 12-point Junior Sockets Nos. J-112, J-114, J-116, J-118, J-120, J-122, J-124, providing a range of opening sizes from $\frac{3}{8}$ " to $\frac{3}{4}$ " inclusive. Junior Flexible Handle No. J-13. T Handle Bar No. J-33.

SET NO. JA-60, *in fibre box*, weight 1 lb.

LIST PRICE.....\$5.40

SET NO. JA-60 $\frac{1}{2}$, *in metal box*, weight 2 lbs.,

LIST PRICE..... 6.10

JUNIOR SOCKET SET NO. JA-61 $\frac{1}{2}$

A comprehensive set of Junior $\frac{3}{8}$ " Drive Series Sockets that is ideal for handling all types of light work in confined places. Garages and service stations will find this set indispensable and a big time and labor saver. It also covers a wide range of service in aviation work. Herbrand *Hot Forged* Sockets and Attachments are designed to attack the flat rate problem and lick it in less than flat rate time. There is ample room in the convenient metal box for additional "Van-Chrome" units which may be added as required at a small cost.

Contents, total of 17 pieces:—7 "Van-Chrome" 12-point Junior Sockets Nos. J-112, J-114, J-116, J-118, J-120, J-122, J-124, providing a range of opening sizes from $\frac{3}{8}$ " to $\frac{3}{4}$ " inclusive. 3 "Van-Chrome" 8-point Junior Sockets Nos. J-212, J-214, J-216, with openings of $\frac{3}{8}$ ", $\frac{7}{16}$ ", $\frac{1}{2}$ ". Improved Junior Reversible Ratchet No. J-10. 17" Speeder No. J-17. Universal Joint No. J-35. Sliding T Handle No. J-21. 3 Extensions, J-23, 1 $\frac{1}{2}$ " long; J-27, 5" long; J-29, 11" long.

SET NO. JA-61, *in fibre box*, weight 3 lbs. 4 oz.

LIST PRICE.....\$14.60

SET NO. JA-61 $\frac{1}{2}$, *in metal box*, weight 5 lbs., 13 oz.

LIST PRICE..... 15.60



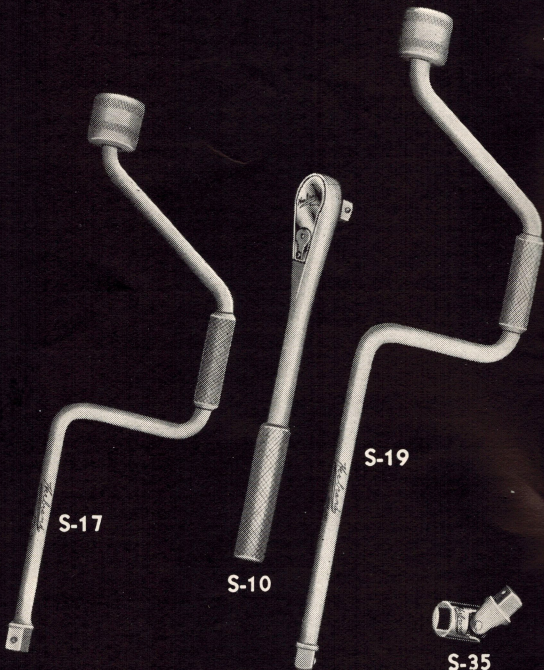
S-112 To S-134



S-316 To S-324



S-212 S-228



S-17

S-10

S-19



S-35



A-390 To A-395



S-37 To S-39



S-36

"VAN-CHROME" STANDARD SERIES SOCKETS

1/2" Square Drive

Hot Forged from Chrome Molybdenum Steel

All excess weight and clumsiness has been eliminated. Every socket individually *Hot Forged* which insures precision, accuracy, greater strength, durability and compactness and adapts them to faster performance. Compare the new "Van-Chrome" sockets with the ordinary cold broached type and immediately you will see the smooth, clean-cut, thin, accurate side walls and points which are free from chatter marks, tears and chips. The height of each socket is graduated to a definite engineering formula to balance with the opening size and they are heavily knurled for a non-slip grip. All Standard Sockets are equipped with lock-on feature which firmly locks the sockets to the handles but releases easily. These lifetime sockets are extra powered by scientific heat treatment and handsomely finished in silvery satin nickel with brightly polished walls.

12 Point Sockets

Socket No.	Size Openings	List Each
S-112	3/8	\$.50
S-114	7/16	.50
S-116	1/2	.50
†S-118	9/16	.60
S-119	19/32	.60
S-120	5/8	.65
†S-121	21/32	.65
‡S-122	11/16	.65
*S-123	23/32	.75
§S-124	3/4	.75
S-125	25/32	.75
S-126	13/16	.75
S-128	7/8	.85
S-130	15/16	.85
S-131	31/32	.85
S-132	1	.95
S-134	1 1/16	1.00

8 Point Sockets

Socket No.	Size Openings	List Each
S-212	3/8	\$.50
S-214	7/16	.50
S-216	1/2	.60
S-218	9/16	.60
S-220	5/8	.65
S-224	3/4	.65
S-228	7/8	.70

Flexible 12 Point Sockets

Socket No.	Size Openings	List Each
S-316	1/2	\$ 2.15
S-318	9/16	2.15
S-320	5/8	2.15
S-322	11/16	2.15
S-324	3/4	2.15

†S-118 Perfect for Ford V-8 Conn. Rod Nuts

†S-121 For Ford A and B Conn. Rod Bearing Cap Nuts

‡S-122 For Chevrolet Center and Rear Main Bearing Cap Screws

*S-123 Has 6-point opening for Chevrolet Front Main Bearing Cap Screws on 1933-1934 Models

§S-124 Fits Main Bearing Nuts on Ford V-8

SOCKET ADAPTORS

These adaptors increase the range of your handles and permit the use of sockets of one series with handles of another series.

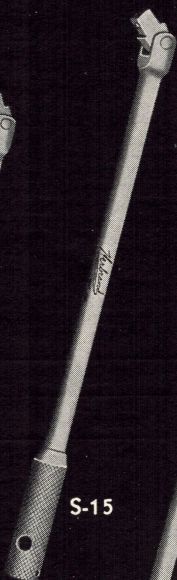
A-390—3/8" male, 1/2" female.....	\$.80
A-391—1/2" male, 3/8" female.....	.80
A-392—1/2" male, 5/8" female.....	.80
A-393—1/2" male, 3/4" female.....	1.10
A-394—3/4" male, 1/2" female.....	1.10
A-395—3/4" male, 5/8" female.....	1.20



S-21



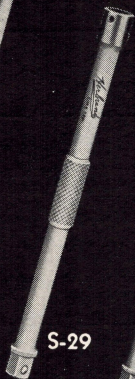
S-13



S-15



S-33



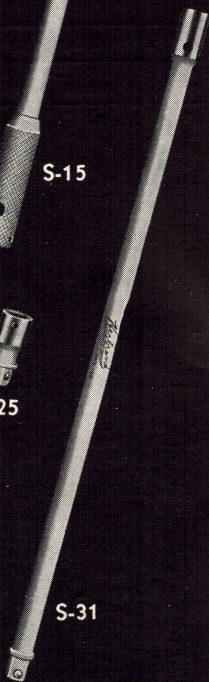
S-29



S-27



S-25



S-31

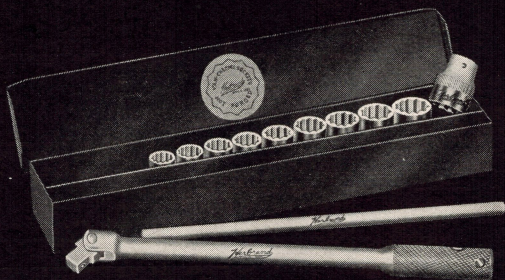
STANDARD SERIES HANDLES & ATTACHMENTS

1/2" Square Drive

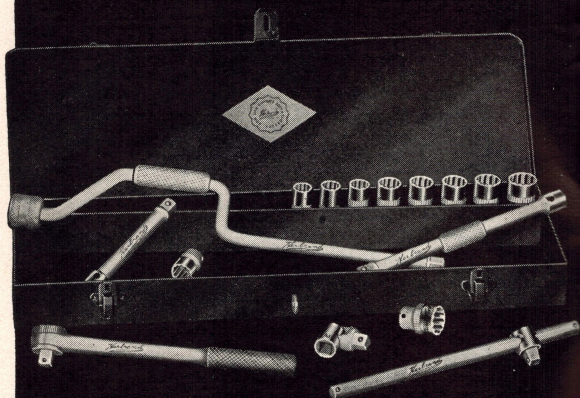
Forged from Chrome Molybdenum Steel

These handles are recognized as the most versatile in the field because the improvements in design and construction increase the efficiency of mechanics. All unnecessary weight and clumsiness is eliminated, but they have more strength and rigidity due to careful forging from select Alloy Steel. All handles and attachments are equipped with the Herbrand positive lock-on feature. Finished in smooth satin nickel with the ends and faces polished to a high lustre.

Part No.	Description	List Each
S-10	IMPROVED STANDARD RATCHET HANDLE, 9 1/2" long. Instantly reversible to operate the 28th of a turn either right or left, designed with narrow head and slender handle for maximum accessibility. Absolutely trouble proof....	\$4.70
S-13	FLEXIBLE OFFSET HANDLE, 12" long. A Flex handle, a swivel handle, an offset handle, a T handle and a nut spinner all in one. Perfectly balanced with a compact swivel joint on a comfortable grip, knurled handle. A friction ball holds the drive tip firmly at any angle. The handle is cross drilled to insert T bar S-33 when needed and it has a square drive hole for use with other attachments.....	2.50
S-15	FLEXIBLE OFFSET HANDLE, 18" long. Square drive hole in handle, drilled for T handle bar S-33. Has same features as S-13.....	3.00
S-17	SHORT SPEEDER HANDLE, 15" long. Knurled revolving grips. Designed for more speed and clearance.....	1.70
S-19	LONG SPEEDER HANDLE, 18" long.....	1.90
S-21	SLIDING T HANDLE, 11" long. The forged head slides flush to the ends for use as an offset wrench and a friction ball holds the head firmly at any point on the bar.....	1.30
	EXTENSIONS. Heads forged with a square drive opening, equipped with retaining holes for positive locking, all extension bars are cross drilled in the head so that a plain bar may be used as a T handle. The drive end is equipped with lock-on ball and spring.	
S-25	EXTENSION, 2" long, forged solid.....	.60
S-27	EXTENSION, 5" long, forged solid.....	.80
S-29	EXTENSION, 10" long, with swivel grip.....	1.10
S-31	EXTENSION, 18" long, forged solid.....	1.40
S-33	T HANDLE BAR, 11" long, used to form T handle with all attachments, which are cross drilled for this purpose.....	.25
S-35	UNIVERSAL JOINT, Improved, short coupled, positive locking. Facilitates adjustments in cramped places and reaches where others fail...	2.10
S-36	SPRING STABILIZER. Slides over universal joint for conversion into a flexible knuckle.....	.20
S-37	DRAG LINK SOCKET, 3/4" Blade.....	.80
S-39	DRAG LINK SOCKET, 1" Blade.....	.80



"VAN-CHROME"
FLEX SET No. SA-71 $\frac{1}{2}$
STANDARD SERIES— $\frac{1}{2}$ " DRIVE



"VAN-CHROME"
SOCKET SET No. SA-72 $\frac{1}{2}$
STANDARD SERIES— $\frac{1}{2}$ " DRIVE

STANDARD SOCKET ASSORTMENT NO. SA-70

A popular assortment of 16 "Van-Chrome" Hot Forged Sockets with 12-point openings and $\frac{1}{2}$ " square drive connection.

Content:—16 "Van-Chrome" Socket Nos. S-112 to S-134 (listed on page 11 exclusive of No. S-123), providing a range of opening sizes from $\frac{3}{8}$ " to $1\frac{1}{16}$ " inclusive.

SET NO. SA-70, *in fibre box*, weight 2 lbs., 5 oz.

LIST PRICE.....\$11.40

STANDARD FLEX SET NO. SA-71 $\frac{1}{2}$

This utility set carries the No. S-13 Flexible Offset Handle and T Bar No. 33, combined with ten carefully selected "Van-Chrome" Socket sizes, which provide a broad range of service with a minimum number of units.

Contents, total of 12 pieces:—10 "Van-Chrome" 12-point Sockets Nos. S-114, $\frac{7}{16}$ "; S-116, $\frac{1}{2}$ "; S-118, $\frac{9}{16}$ "; S-120, $\frac{5}{8}$ "; S-121, $\frac{21}{32}$ "; S-122, $\frac{11}{16}$ "; S-124, $\frac{3}{4}$ "; S-126, $\frac{13}{16}$ "; S-128, $\frac{7}{8}$ "; S-130, $\frac{15}{16}$ "; Flexible Offset Handle No. S-13. T Handle Bar No. S-33.

SET NO. SA-71, *in fibre box*, weight 2 lbs., 12 oz.

LIST PRICE.....\$ 9.50

SET NO. SA-71 $\frac{1}{2}$, *in metal box*, weight 4 lbs., 6 oz.

LIST PRICE..... 10.30

STANDARD FLEX SET NO. SA-73 $\frac{1}{2}$

This set carries the extra long 18" Flex Handle No. S-15 which every mechanic needs. Also a T Bar and ten popular sizes of "Van-Chrome" Sockets with $\frac{1}{2}$ " square drive connection.

Contents, total of 18 pieces:—16 "Van-Chrome" 12-point Sockets Nos. S-112 to S-134 (listed on page 11 exclusive of Socket No. S-123). Flexible Offset Handle No. S-15. T Handle Bar No. S-33.

SET NO. SA-73, *in fibre box*, weight 4 lbs., 9 oz.

LIST PRICE.....\$14.65

SET NO. SA-73 $\frac{1}{2}$, *in metal box*, weight 6 lbs.

LIST PRICE..... 15.90

STANDARD SOCKET SET NO. SA-72 $\frac{1}{2}$

A comprehensive assortment of the 10 most popular sizes of Standard Series "Van-Chrome" Sockets and 6 Handle Units. This set meets the needs of most mechanics and there is ample room in the attractive metal box for additional Sockets and Handles. The box has a convenient carrying handle and is fitted with lock and nickel clasps.

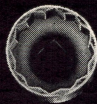
Contents, total of 16 pieces:—10 "Van-Chrome" 12-point Sockets Nos. S-114, $\frac{7}{16}$ "; S-116, $\frac{1}{2}$ "; S-118, $\frac{9}{16}$ "; S-120, $\frac{5}{8}$ "; S-121, $\frac{21}{32}$ "; S-122, $\frac{11}{16}$ "; S-124, $\frac{3}{4}$ "; S-125, $\frac{25}{32}$ "; S-126, $\frac{13}{16}$ "; S-128, $\frac{7}{8}$ ". Reversible Action Ratchet, S-10. Short Speed Handle, S-17. Sliding T Handle, S-21. Extension, 5" long, S-27. Extension, 10" long, revolving grip, S-29. Universal Joint, S-35.

SET NO. SA-72, *in fibre box*, weight 6 lbs., 6 oz.

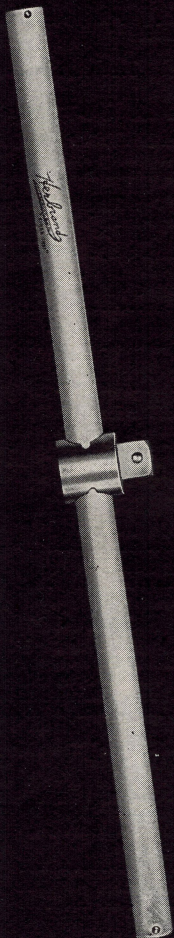
LIST PRICE.....\$18.35

SET NO. SA-72 $\frac{1}{2}$, *in metal box*, weight 11 lbs., 8 oz.

LIST PRICE..... 20.05



H-128 To H-164



H-21



H-31



H-29

"VAN-CHROME" HEAVY DUTY SERIES SOCKETS

$\frac{3}{4}$ " Square Drive

Hot Forged from Chrome Molybdenum Steel

Engineered and designed to perform the most strenuous work on large diameter nuts where extra strength is vitally important. *Hot Forged* with straight, thin sidewalls. Polished satin nickel.

12 Point Sockets

Socket No.	Size Openings	List Each	Socket No.	Size Openings	List Each
H-128	$\frac{7}{8}$	\$.90	H-144	$1\frac{3}{8}$	\$1.65
H-130	$1\frac{5}{16}$	.95	H-146	$1\frac{7}{16}$	1.85
H-131	$1\frac{31}{32}$	.95	H-148	$1\frac{1}{2}$	2.00
H-132	1	.95	H-152	$1\frac{5}{8}$	2.10
H-134	$1\frac{1}{16}$	1.10	H-156	$1\frac{3}{4}$	2.90
H-136	$1\frac{1}{8}$	1.20	H-158	$1\frac{13}{16}$	3.30
H-140	$1\frac{1}{4}$	1.40	H-160	$1\frac{7}{8}$	3.30
H-142	$1\frac{5}{16}$	1.40	*H-164	2	4.00

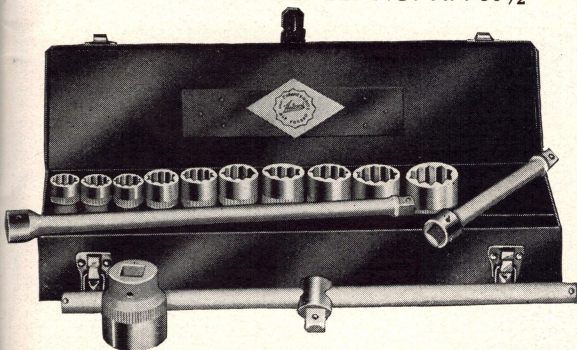
*Ideal for Rear Axle Nut 1934 Chevrolet Truck

HEAVY DUTY HANDLES AND ATTACHMENTS

$\frac{3}{4}$ " Square Drive

H-21	SLIDING T HANDLE, 18" long.....	\$2.90
H-29	EXTENSION, 8" long, Forged Solid.....	1.80
H-31	EXTENSION, 16" long, Forged Solid.....	2.30

HEAVY DUTY SOCKET SET NO. HA-80 $\frac{1}{2}$

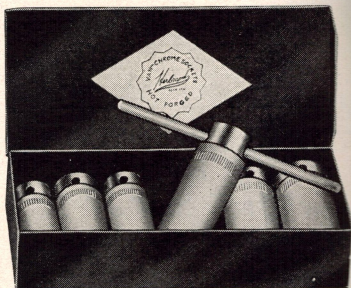


Every thoroughly equipped mechanic needs a complete set of "Van-Chrome" Heavy Duty Sockets.

Contents, total of 14 pieces:—11 "Van-Chrome" Heavy Duty Sockets Nos. H-128, $\frac{7}{8}$ " ; H-130, $1\frac{5}{16}$ " ; H-131, $1\frac{31}{32}$ " ; H-132, 1" ; H-134, $1\frac{1}{16}$ " ; H-136, $1\frac{1}{8}$ " ; H-140, $1\frac{1}{4}$ " ; H-144, $1\frac{3}{8}$ " ; H-146, $1\frac{5}{16}$ " ; H-148, $1\frac{1}{2}$ " ; H-152, $1\frac{5}{8}$ ". Sliding T Handle No. H-21. Extension No. H-29. Extension No. H-31.

SET NO. HA-80, in fibre box, wt. 11 lbs. LIST PRICE. . \$22.05

SET NO. HA-80 $\frac{1}{2}$, in metal box, wt. 16 lbs. LIST PRICE. . 23.85



SET NO. DS-7 1/2

"VAN-CHROME" EXTRA DEEP SOCKET and SPARK PLUG WRENCHES

1/2" Square Drive

Hot Forged from Chrome Molybdenum Steel

In addition to fitting all spark plugs these Extra Deep Sockets are invaluable for work on body bolts, spring clips and many other places where an extra long reach is necessary. Designed with 1/2" square drive opening for use with standard handles and cross drilled in the offset shoulder so that a sliding T bar may be used. *Hot Forged* and heat treated to impart unbreakable strength. The side walls are straight and thin for clearance and the 12-point openings are smooth and deep insuring an accurate positive fit. Knurled and finished in satin nickel with heads polished. Recessed spark plugs make these Sockets an absolute necessity. A 7" slide bar is supplied with the set for use as a T handle.

Socket No.	Open-ings	Length	List Each	Socket No.	Open-ings	Length	List Each
DS-16	1/2	3	\$1.05	DS-28	7/8	3 1/4	\$1.30
DS-18	9/16	3	1.05	†DS-28B	57/64	3 1/4	1.30
DS-20	5/8	3	1.10	DS-30	15/16	3 1/4	1.40
DS-24	3/4	3	1.10	‡DS-32	1	3 1/4	1.50
*DS-26	13/16	2 1/2	1.20	DS-36	1 1/8	3 1/4	1.70

*Fits 14 M.M. Plug

†Extra Thin for Buick

‡Fits 18 M.M. Plug.

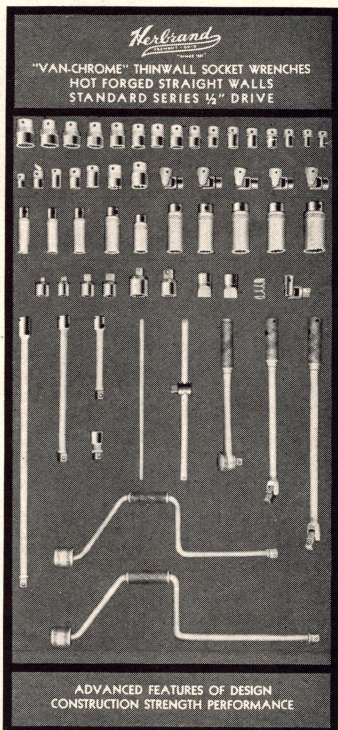
SET NO. DS-7 1/2 contains one each Nos. DS-26, DS-28, DS-28B, DS-30, DS-32, DS-36, DSH-6 Handle. Total of 7 pieces.

SET NO. DS-7, in fibre box, weight 2 lbs., 10 oz.

LIST PRICE.....\$8.40

SET NO. DS-7 1/2, in metal box, weight 3 lbs., 12 oz.

LIST PRICE..... 9.10



"VAN-CHROME" SOCKET DISPLAYS

JUNIOR DISPLAY NO. J-1, total of 28 pieces, one each of the Junior Series described on page 7, size of board 14" x 38".

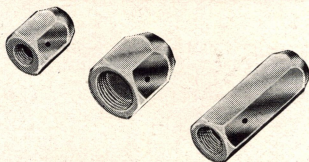
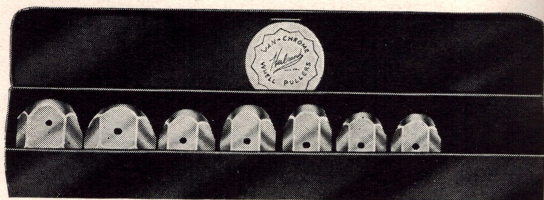
LIST PRICE, *complete*.....\$32.40

STANDARD DISPLAY NO. S-2, total of 60 pieces, one each of the Standard Series described on pages 11 and 13, also the 10 Extra Deep Sockets, listed on page 18, size of board 22" x 44".

LIST PRICE, *complete*.....\$68.75

HEAVY DUTY DISPLAY NO. HD-3, total of 19 pieces, one each of the Heavy Duty Series described on page 17, size of board 14" x 38".

LIST PRICE, *complete*.....\$36.95



"VAN-CHROME" KNOCK-OUT WHEEL PULLERS

Nickel Plated and Polished

Chrome Alloy Steel

There has long been a waiting demand for a Knock-Out Wheel Puller of *real quality* at a *moderate price*. "Van-Chrome" Knock-Outs are dependable because they are accurately machined from tough Chrome Alloy Steel and heat treated for strength and shock resistance. They screw up snug to the end of axle shaft and will stand the hardest hammer blows without injury to threads or shafts. The heads will not mushroom or split. Finished in satin nickel with polished heads.

Set No. KO-10 illustrated carries the popular sizes to service practically all makes of cars and light trucks. These Knock-Outs are simple and efficient to use and offer the quickest and most convenient method of jarring loose the tightest wheels without damage to axle or threads.

Part No.	Size Opening	Threads to Inch	Height	List Each
†KO-20	$\frac{5}{8}$	18 SAE	$1\frac{5}{8}$	\$.90
KO-24	$\frac{3}{4}$	16 SAE	$1\frac{3}{4}$	1.00
*KO-24T	$\frac{3}{4}$	20 USF	2	1.00
KO-26	$1\frac{1}{16}$	16 SAE	$3\frac{1}{2}$	1.10
KO-28	$\frac{7}{8}$	14 SAE	$1\frac{3}{4}$	1.10
§KO-28H	$\frac{7}{8}$	18 USF	$1\frac{3}{4}$	1.10
KO-32	1	14 SAE	$1\frac{3}{4}$	1.20
KO-36	$1\frac{1}{8}$	12 SAE	$1\frac{3}{4}$	1.50
KO-40	$1\frac{1}{4}$	7 USS	$1\frac{3}{4}$	1.90
‡KO-40T	$1\frac{1}{4}$	12 SAE	$1\frac{3}{4}$	1.90

†Ford V-8 *Terraplane §Hudson Essex ‡Chevrolet Truck

SET NO. KO-10 contains one each of the ten Knock-Outs listed in the above table. Weight $7\frac{1}{2}$ lbs.

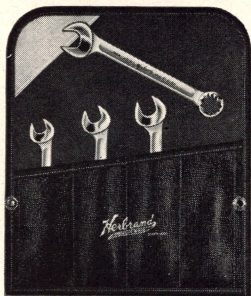
LIST PRICE, in metal box.....\$13.40



"VAN-CHROME" MULTITYPE WRENCHES

Combination Box and Open End

Drop Forged from Chrome Vanadium Steel



SET NO. 1225

These new, dual-use wrenches are designed for general service work, but are especially adaptable for carburetor, manifold, clutch, generator and starter.

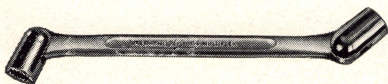
The angle of the open end is set at $22\frac{1}{2}^\circ$ for greatest efficiency, and the twelve point box end is offset at 15° for clearance of obstructions. Both ends have the same size openings. The panel handle design provides a firm grip.

Made in the four popular sizes for the widest possible range of use with the minimum number of wrenches. Drop forged from special analysis Chrome Vanadium Steel, heat treated throughout and finished in double satin nickel with brightly polished heads. Sold individually or in sets, as listed.

Wrench No.	Openings	For U. S. Std. Nuts	For Hex. Cap Screws	For S.A.E. Nuts and Cap Screws	Length	Weight Per Doz. Lbs. Ozs.	List Price Each
1214	$\frac{7}{16}$	.....	$\frac{1}{4}$	$\frac{1}{4}$	5	1 5	\$.80
1216	$\frac{1}{2}$	$\frac{1}{4}$	$\frac{5}{16}$	$\frac{5}{16}$	$5\frac{1}{2}$	1 8	.90
1218	$\frac{9}{16}$	.....	$\frac{3}{8}$	$\frac{3}{8}$	6	2 1	1.00
1220	$\frac{5}{8}$	.....	$\frac{7}{16}$	$\frac{7}{16}$	$6\frac{1}{2}$	2 10	1.10

SET NO. 1225 contains one each of above wrenches.

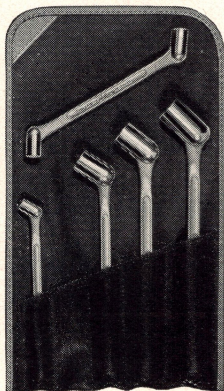
LIST PRICE, *in box* \$3.80; *in canvas bag* \$3.95; *in pocket leatherette case* \$4.30



"VAN-CHROME" MULTIFLEX BOX WRENCHES

Swivel Heads

Drop Forged from Chrome Vanadium Steel



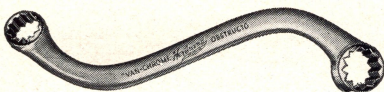
SET NO. 6820

True to its name the Multiflex is both flexible and serves a multitude of uses, because it adjusts instantly to any angle. The swivel heads break over to 90° and are equipped with compression springs to retain any working position, and handle nuts and bolts at all awkward angles. Extra deep, hot forged twelve-point sockets and very thin, straight side walls permit a full firm grip on sunken nuts. The sockets are chamfered so that bolts and nuts readily locate in the openings. Oval handles with panel design for maximum gripping power. Satin nickel with polished heads.

Wrench No.	Socket Size Openings	For U.S. Std. Nuts	For Hex. Cap Screws	For S.A.E. Nuts and Cap Screws	Length	List Price Each
6823	$\frac{3}{8}$ & $\frac{7}{16}$	.....	$\frac{3}{16}$ & $\frac{1}{4}$	..... $\frac{1}{4}$	$7\frac{3}{8}$	\$1.80
6825	$\frac{1}{2}$ & $\frac{9}{16}$	$\frac{1}{4}$	$\frac{5}{16}$ & $\frac{3}{8}$	$\frac{5}{16}$ & $\frac{3}{8}$	$8\frac{3}{4}$	2.00
6827	$\frac{5}{8}$ & $\frac{3}{4}$	.....	$\frac{7}{16}$ & $\frac{1}{2}$	$\frac{7}{16}$ & $\frac{1}{2}$	9	2.10
6829	$\frac{11}{16}$ & $\frac{25}{32}$	$\frac{3}{8}$ & $\frac{7}{16}$	.....	.....	$10\frac{5}{8}$	2.40
6831	$\frac{13}{16}$ & $\frac{7}{8}$	..... $\frac{1}{2}$	$\frac{9}{16}$ & $\frac{5}{8}$	..... $\frac{9}{16}$	11	2.50

SET NO. 6820 contains one each of above wrenches.

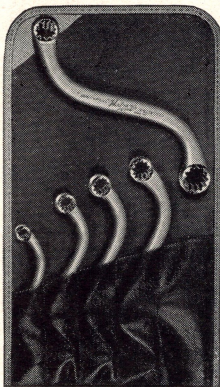
LIST PRICE *in box* \$10.80; *in canvas bag* \$11.00; *in leatherette case* \$11.50



"VAN-CHROME" OBSTRUCTO BOX WRENCHES

"S" Pattern

Drop Forged from Chrome Vanadium Steel



SET NO. 7720

Designed to facilitate the work of mechanics, particularly in those time consuming, "tricky" places.

The unique construction virtually removes obstructions and gets those hidden nuts without removing interfering parts. The heads are set at an unusual angle to provide knuckle clearance. Satin nickel finish, polished heads.

Wrench No.	Openings Broached	For U.S. Std. Nuts	For Hex. Cap Screws	For S.A.E. Std. Nuts and Cap Screws	Length	List Price Each
7723	$\frac{3}{8}$ & $\frac{7}{16}$	.....	$\frac{3}{16}$ & $\frac{1}{4}$	..... $\frac{1}{4}$	6	\$1.10
7725B	$\frac{1}{2}$ & $\frac{9}{16}$	$\frac{1}{4}$	$\frac{5}{16}$ & $\frac{3}{8}$	$\frac{5}{16}$ & $\frac{3}{8}$	7	1.20
7727	$\frac{9}{16}$ & $\frac{5}{8}$	.....	$\frac{3}{8}$ & $\frac{7}{16}$	$\frac{3}{8}$ & $\frac{7}{16}$	8	1.30
7729	$\frac{11}{16}$ & $\frac{25}{32}$	$\frac{3}{8}$ & $\frac{7}{16}$	.....	.....	9	1.45
7731A	$\frac{3}{4}$ & $\frac{7}{8}$	..... $\frac{1}{2}$	$\frac{1}{2}$ & $\frac{5}{16}$	$\frac{1}{2}$ & $\frac{9}{16}$	10	1.65

SET NO. 7720 contains one each of above wrenches.

LIST PRICE, in box \$6.70; in drawstring bag \$6.90; in leatherette case \$7.40



15° Short Pattern



10° Long Pattern

"VAN-CHROME" MULTIHEx BOX WRENCHES

10° and 15° Angle Patterns

Drop Forged from Chrome Vanadium Steel

Easy knuckle clearance of an offset wrench, with the accessibility of a straight wrench applying a direct powerful pull on the nut, these wrenches will not tip or slip off when pressure is applied. Either side of the wrench may be used which is not possible with the 45° offset type. They have different 12-point openings in each head with extra thin side walls.

Herbrand makes this pattern with two different degrees of offset heads—the Short Pattern 15° and the Long with 10° angle heads and they are available in all the popular opening sizes. Smoothly ground all over and double plated in satin nickel with the heads brightly polished.

SHORT 15° PATTERN

Wrench No.	Openings Broached	For U.S. Std. Nuts	For Hex. Cap Screws	For S.A.E. Std. Nuts and Cap Screws	Length	List Price Each
6723	$\frac{3}{8}$ & $\frac{7}{16}$	.....	$\frac{3}{16}$ & $\frac{1}{4}$	..... $\frac{1}{4}$	4	\$.80
6725B	$\frac{1}{2}$ & $\frac{9}{16}$	$\frac{1}{4}$	$\frac{5}{16}$ & $\frac{3}{8}$	$\frac{5}{16}$ & $\frac{3}{8}$	$4\frac{1}{2}$	.85
6727A	$\frac{5}{8}$ & $\frac{11}{16}$	.....$\frac{3}{8}$	$\frac{7}{16}$	$\frac{7}{16}$	5	.90

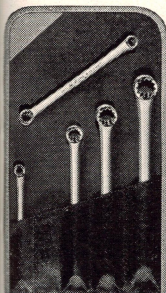
LONG 10° PATTERN

5723	$\frac{3}{8}$ & $\frac{7}{16}$	.....	$\frac{3}{16}$ & $\frac{1}{4}$	..... $\frac{1}{4}$	$6\frac{3}{4}$	\$.85
5725B	$\frac{1}{2}$ & $\frac{9}{16}$	$\frac{1}{4}$	$\frac{5}{16}$ & $\frac{3}{8}$	$\frac{5}{16}$ & $\frac{3}{8}$	$7\frac{7}{8}$	.95
5727	$\frac{9}{16}$ & $\frac{5}{8}$	.....	$\frac{3}{8}$ & $\frac{7}{16}$	$\frac{3}{8}$ & $\frac{7}{16}$	$8\frac{7}{8}$	1.05
5729	$\frac{11}{16}$ & $\frac{25}{32}$	$\frac{3}{8}$ & $\frac{7}{16}$	.....	.....	10	1.20
5731A	$\frac{3}{4}$ & $\frac{7}{8}$	.....$\frac{1}{2}$	$\frac{1}{2}$ & $\frac{5}{8}$	$\frac{1}{2}$ & $\frac{9}{16}$	$11\frac{1}{8}$	1.35

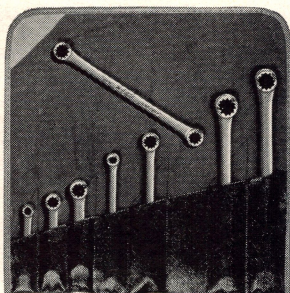
EXTRA LONG— $\frac{5}{8}$ " OFFSET—50° ANGLE

NO. 251, twelve-point openings $\frac{15}{16}$ " and $1\frac{1}{16}$ ", Length 15". Weight 1 lb.

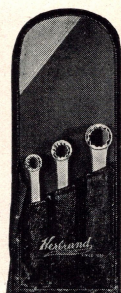
LIST PRICE, each.....\$2.60



SET NO. 5720



SET NO. 5721



SET NO. 3703

"VAN-CHROME" BOX WRENCH SETS

10° and 15° Angle Patterns

Drop Forged from Chrome Vanadium Steel

"Van-Chrome" Multihex Box Wrenches in the Short 15° and the Long 10° patterns are also available in set combinations of the most necessary sizes. They are packed in boxes, drawstring canvas bags or beautiful leatherette cases which are flannel lined and provide an individual compartment for each wrench. Full description and prices are listed below.

SET NO. 5720 consists of 5 Long 10° Angle Box wrenches Nos. 5723, 5725B, 5727, 5729 and 5731A.

LIST PRICE, *in box* \$5.40; *in canvas bag* \$5.60; *in pocket leatherette case* \$6.10

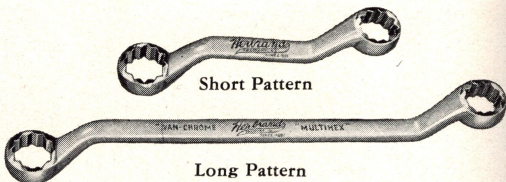
SET NO. 5721 is a complete assortment carrying 1 each Nos. 6723, 6725B, 6727A, 5723, 5725B, 5727, 5729 and 5731A.

LIST PRICE, *in box* \$7.95; *in canvas bag* \$8.15; *in pocket leatherette case* \$9.05

SET NO. 3703 comprises one each of the 3 Short Pattern Nos. 6723, 6725B and 6727A.

LIST PRICE, *in box* \$2.55; *in canvas bag* \$2.70; *in pocket leatherette case* \$2.95

A Herbrand guarantee tag is attached to each set of "Van-Chrome" Multihex Box Wrenches which insures the purchaser complete satisfaction.



"VAN-CHROME" MULTIHEX BOX WRENCHES

45° Offset Patterns

Drop Forged from Chrome Vanadium Steel

There is an essential difference between "Van-Chrome" Multihex and similarly designed wrenches because they are built to the specifications of mechanics. Refinements of speed, efficiency and moderate price make them highly acceptable.

They have different twelve-point graduated openings in each end and the abrupt offset of the heads reaches sunken nuts and gets around obstructions. The extra thin side walls and generous leverage have also contributed to their universal approval.

Drop Forged from the finest Chrome Vanadium Steel and heat treated their entire length to insure dependable service.

Finished in velvety smooth satin nickel with heads brightly polished.

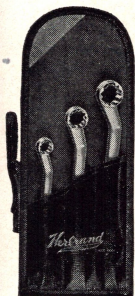
SHORT OFFSET PATTERN

Wrench No.	Openings Broached	For U.S. Std. Nuts	For Hex. Cap Screws	For S.A.E. Std. Nuts and Cap Screws	Length	List Price Each
4723	$\frac{3}{8}$ & $\frac{7}{16}$	.....	$\frac{3}{16}$ & $\frac{1}{4}$	..... $\frac{1}{4}$	4 $\frac{1}{2}$	\$.80
4725B	$\frac{1}{2}$ & $\frac{9}{16}$	$\frac{1}{4}$	$\frac{5}{16}$ & $\frac{3}{8}$	$\frac{5}{16}$ & $\frac{3}{8}$	5 $\frac{1}{4}$	.90
4727A	$\frac{5}{8}$ & $\frac{11}{16}$	.....$\frac{3}{8}$	$\frac{7}{16}$	$\frac{7}{16}$	6	1.00

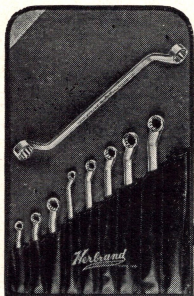
LONG OFFSET PATTERN

3723	$\frac{3}{8}$ & $\frac{7}{16}$	.....	$\frac{3}{16}$ & $\frac{1}{4}$	..... $\frac{1}{4}$	8 $\frac{1}{2}$	\$.85
3725B	$\frac{1}{2}$ & $\frac{9}{16}$	$\frac{1}{4}$	$\frac{5}{16}$ & $\frac{3}{8}$	$\frac{5}{16}$ & $\frac{3}{8}$	9	.95
3727	$\frac{9}{16}$ & $\frac{5}{8}$	.....	$\frac{3}{8}$ & $\frac{7}{16}$	$\frac{3}{8}$ & $\frac{7}{16}$	9 $\frac{3}{4}$	1.10
3727A	$\frac{5}{8}$ & $\frac{11}{16}$	.....$\frac{3}{8}$	$\frac{7}{16}$	$\frac{7}{16}$	9 $\frac{3}{4}$	1.10
3729A	$\frac{3}{4}$ & $\frac{25}{32}$	.....$\frac{7}{16}$	$\frac{1}{2}$	$\frac{1}{2}$	11	1.25
3731B	$\frac{13}{16}$ & $\frac{7}{8}$	.....$\frac{1}{2}$	$\frac{9}{16}$ & $\frac{5}{8}$	.....$\frac{9}{16}$	12 $\frac{1}{2}$	1.50
3733C	$\frac{15}{16}$ & 1	.....	.....$\frac{3}{4}$	$\frac{5}{8}$ & $\frac{11}{16}$	14 $\frac{1}{2}$	1.80

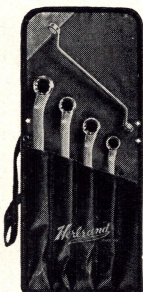
The $\frac{9}{16}$ " opening in No. 3727 is ideal for Chevrolet conn. rods.



SET NO. 3701



SET NO. 3702



SET NO. 3700

"VAN-CHROME" BOX WRENCH SETS

45° Offset Patterns

Drop Forged from Chrome Vanadium Steel

For the convenience of the mechanic and to provide readily saleable units, Multihex Wrenches are supplied in various practical assortments. These sets are obtainable in cardboard boxes, canvas drawstring bags or in the popular, distinctive leatherette rolls which are flannel lined and have a separate pocket for each wrench. See description below.

SET NO. 3701 comprises one each of the 3 Short Pattern Nos. 4723, 4725B and 4727A.

LIST PRICE, *in box* \$2.70; *in canvas bag* \$2.85; *in pocket leatherette case* \$3.10

SET NO. 3702 contains 9 wrenches, one each of the 3 Short Offset Pattern Nos. 4723, 4725B, 4727A, and one each of the 6 Long Offset Type Nos. 3723, 3725B, 3727A, 3729A, 3731B and 3733C.

LIST PRICE, *in box* \$10.15; *in canvas bag* \$10.35; *in pocket leatherette case* \$11.25

SET NO. 3700 carries one each of 5 Long Offset Box Wrenches Nos. 3723, 3725B, 3727A, 3729A and 3731B.

LIST PRICE, *in box* \$5.65; *in canvas bag* \$5.85; *in pocket leatherette case* \$6.35

SET NO. 3704 (not illustrated) contains one each of the 6 Long Offset Pattern Nos. 3723, 3725B, 3727A, 3729A, 3731B and 3733C.

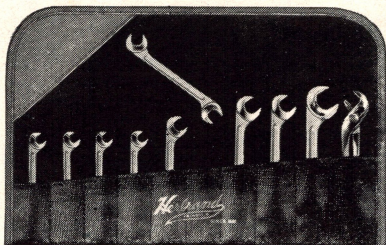
LIST PRICE, *in box* \$7.45; *in canvas bag* \$7.65; *in pocket leatherette case* \$8.35



"VAN-CHROME" ELECTRICAL AND IGNITION WRENCHES

15° and 60° Angle Heads

Drop Forged from Chrome Vanadium Steel



SET NO. 99

Feather lightness with amazing strength marks these wrenches as the handiest for tricky carburetor and ignition jobs. Different openings on each end, yet each size is duplicated on a separate wrench at a different angle. Ignition experts designed these wrenches for greater efficiency on magnetos, coils, ignition, distributors, ammeters, and all small nuts such as are found on radio and electrical appliances. Satin nickel handles with mirror bright heads. These wrenches are *Drop Forged*—not stampings.

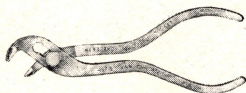
Wrench No.	Openings Milled		Thickness Heads	Length	List Price Each
	15° Angle	60° Angle			
81	$\frac{13}{64}$	$\frac{15}{64}$	$\frac{7}{64}$	3	\$.65
82	$\frac{15}{64}$	$\frac{13}{64}$	$\frac{7}{64}$	3	.65
83	$\frac{7}{32}$	$\frac{1}{4}$	$\frac{7}{64}$	3	.65
84	$\frac{1}{4}$	$\frac{7}{32}$	$\frac{7}{64}$	3	.65
85	$\frac{9}{32}$	$\frac{5}{16}$	$\frac{1}{8}$	$3\frac{1}{2}$	.70
86	$\frac{5}{16}$	$\frac{9}{32}$	$\frac{1}{8}$	$3\frac{1}{2}$	.70
87	$\frac{11}{32}$	$\frac{3}{8}$	$\frac{9}{64}$	4	.80
88	$\frac{3}{8}$	$\frac{11}{32}$	$\frac{9}{64}$	4	.80
89	$\frac{7}{16}$	$\frac{1}{2}$	$\frac{11}{64}$	$4\frac{1}{2}$	.90

SET NO. 97 contains one each Nos. 81, 82, 83, 84, 85, 86, 87.
LIST PRICE, in flannel lined leatherette roll.....\$5.20

SET NO. 99 contains one each of the nine wrenches in above
table and the No. 167 Midget Plier illustrated on page 29.
LIST PRICE, in flannel lined leatherette case.....\$8.50



NO. 167
Finger Tip Control Handles



NO. 167 1/2
Full Grip Handles

"VAN-CHROME" MIDGET PLIERS

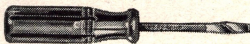
For Electrical, Radio and Ignition Work

Drop Forged from Chrome Vanadium Steel

Little giants of capacity and utility, small enough to slip into the vest pocket, thin enough to reach the smallest, most awkwardly placed nuts, yet sufficiently strong to last a lifetime. They serve a wide range of uses for electrical, ignition and radio work and those irksome, cramped quarter jobs behind the dash panel are easy with these Midgets.

No. 167 has finger tip control handles for working where space is limited. No. 167 1/2 has full grip handles.

Range 0" to 1/16", length 4 1/2", thickness 1/8", weight 2 ounces
NO. 167-S, Satin nickel, polished head. LIST PRICE, *each*. \$1.20
NO. 167-N, Hand polished nickel. LIST PRICE, *each*. . . 1.50
NO. 167 1/2-S, Satin nickel, polished head. LIST PRICE, *ea*. 1.30
NO. 167 1/2-N, Hand polished nickel. LIST PRICE, *each*. . . 1.60



ELECTRICAL SCREW DRIVERS

Insulated Handles

Blades Forged from Chrome Tungsten Steel

The transparent amber handles of these special Electrical Screw Drivers are perfect insulators and are absolutely breakproof. They are specially designed for electrical, radio and ignition work, and fit the wide range of screws in use. The solid one piece blades are forged from square stock and the tips are accurately ground to standard gauges. These Screw Drivers are the strongest and toughest made and will stand surprising abuse. Blades are nickel plated with brightly polished tips. Nos. 310 and 311 supplied with metal vest pocket clip.

Screw Driver No.	Length of Blade	Size Square Stock	Length Overall	Weight Per Doz. Lbs. Ozs.	List Price Each
310	2	1/8	4 3/16	9	\$.50
311	3	1/8	4 3/16	12	.60
312	3	3/16	6 1/4	10	.95
313	6	3/16	9 1/4	2	1.15
314	9	3/16	12 1/4	4	1.20

SET NO. SD-5, containing one each of the five above Electrical Screw Drivers.

LIST PRICE, in flannel lined leatherette kit. \$4.90

Herbrand



"VAN-CHROME" TAPPET WRENCHES

Double End—15° Angle

Drop Forged from Chrome Vanadium Steel



SET NO. H-80

The super quality and design of "Van-Chrome" Tappet Wrenches have given them nation-wide acceptance. Maintaining their leadership through constant development of design and construction, they are still longer—thinner—lighter—and tougher. Drop forged from Select Chrome Vanadium Steel and scientifically heat treated. Beautifully finished in permanent nickel with mirror polished heads and smooth satin grips.

Wrench No.	Openings Milled	Thickness Heads	Length	List Price Each
H-1	$\frac{7}{16}$ & $\frac{17}{32}$	$\frac{5}{32}$	$7\frac{1}{4}$	\$.75
H-2	$\frac{1}{2}$ & $\frac{9}{16}$	$\frac{5}{32}$	8	.80
H-3	$\frac{5}{8}$ & $\frac{11}{16}$	$\frac{7}{32}$	8	.90
H-4	$\frac{3}{4}$ & $\frac{7}{8}$	$\frac{7}{32}$	9	1.10

SET NO. H-80, two each of wrenches in the above table, 8 wrenches in all, nickel finish.

LIST PRICE, *in box* \$7.10; *in pocket leatherette roll* \$7.80

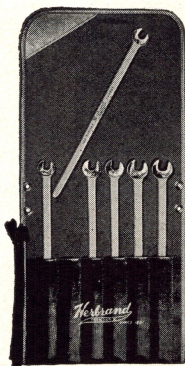
With the H-80 kit the mechanic is never at loss for the right Tappet Wrench for most any tappet adjusting job.



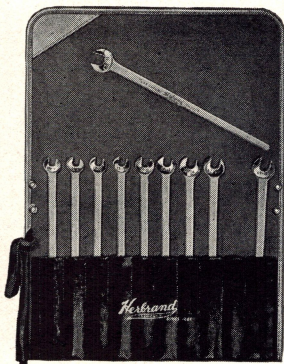
"VAN-CHROME" EXTRA LONG TAPPET WRENCHES

12½" Long—15° Angle—Single End

Drop Forged from Chrome Vanadium Steel



SET NO. LT-6



SET NO. LT-10

The mechanic who has burned his hands on a hot manifold when making tappet adjustments will appreciate these extra long Tappet Wrenches. The thin handles are 12½" long to clear the manifold and provide maximum reach with positive control for precise adjustments. Drop forged from the finest Chrome Vanadium steel and heat treated their entire length for unfailing service. Satin nickel handles, brightly polished heads.

Wrench No.	Openings Milled	Thickness Heads	Length	List Price Each
LT-11	7/16	3/16	12½	\$1.30
LT-12	1/2	3/16	12½	1.30
LT-13	9/16	3/16	12½	1.30
LT-14	5/8	3/16	12½	1.40
LT-15	11/16	3/16	12½	1.40

SET NO. LT-6 contains one pair each of Nos. 12, 13 and 14.
LIST PRICE, *in box* \$8.00; *in pocket leatherette case* \$8.70

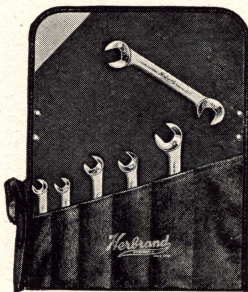
SET NO. LT-10 contains one pair each of the 5 sizes listed.
LIST PRICE, *in box* \$13.40; *in pocket leatherette case* \$14.20



"VAN-CHROME" OBSTRUCTO WRENCHES

45° and 90° Angle

Drop Forged from Chrome Vanadium Steel



SET NO. 1836

Their unique design makes it possible to reach obscure nuts or bolts and saves many hours of trying labor. The thin heads and narrow pointed jaws of this wrench reach around obstructions and positively move hidden nuts in positions that ordinary wrenches cannot reach. Brake adjustments, carburetor, manifold and steering gear work, starter nuts and the like, respond speedily to the positive pull of the Obstructo. Drop forged from the finest Chrome Vanadium Steel. The comfortable grips are finished in smooth, satin nickel and the heads are polished to mirror brightness.

Wrench No.	Openings Milled	For U.S. Std. Nuts	For Hex. Cap Screws	For S.A.E. Nuts and Cap Screws	Thickness Heads	Length	List Price Each
1821	$\frac{3}{8}$	..	$\frac{3}{16}$	..	$\frac{11}{64}$	$5\frac{1}{2}$	\$.75
1823	$\frac{7}{16}$	..	$\frac{1}{4}$	$\frac{1}{4}$	$\frac{11}{64}$	$5\frac{1}{2}$	.75
1825	$\frac{1}{2}$	$\frac{1}{4}$	$\frac{5}{16}$	$\frac{5}{16}$	$\frac{13}{64}$	$6\frac{1}{2}$	.90
1827	$\frac{9}{16}$	..	$\frac{3}{8}$	$\frac{3}{8}$	$\frac{13}{64}$	$6\frac{1}{2}$	.90
1829	$\frac{5}{8}$	..	$\frac{7}{16}$	$\frac{7}{16}$	$\frac{15}{64}$	$7\frac{1}{2}$	1.10
1831	$\frac{3}{4}$	..	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{15}{64}$	$7\frac{1}{2}$	1.10

SET NO. 1836 contains one each of above wrenches.

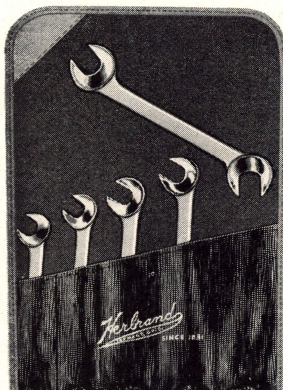
LIST PRICE, in box \$5.50; in pocket leatherette case \$6.20



"VAN-CHROME" SPECIAL ANGLE WRENCHES

22 1/2° and 62 1/2° Heads

Drop Forged from Chrome Vanadium Steel



SET NO. 280

New special angled wrenches of exclusive Herbrand design. The extra narrow pointed jaws give more clearance which enables mechanics to work freely in places where ordinary wrenches can't go. Each end has the same size opening, one angled at 22 1/2° the other at 62 1/2° which is an innovation. These wrenches not only function better on general service but are engineered to handle both major and minor brake adjustments on all cars and trucks.

Drop forged from select chrome vanadium steel, machined to precision limits and expertly heat treated to insure break-proof qualities. They are smoothly ground and double plated in satin nickel with heads brightly polished.

Wr. No.	Openings Milled	For U.S. Std. Nuts	For Hex. Cap Screws	For S.A.E. Nuts and Cap Screws	Length	Thick-ness Heads	List Price Each
281	9/16 & 9/16	..	3/8	3/8	6 1/4	1/4	\$1.00
282	5/8 & 5/8	..	7/16	7/16	6 1/4	1/4	1.00
283	11/16 & 11/16	3/8	..	..	7 9/16	9/32	1.25
284	3/4 & 3/4	..	1 1/2	1 1/2	7 9/16	9/32	1.25
285	7/8 & 7/8	1 1/2	5/8	9/16	8 3/8	9/32	1.50

SET NO. 280 contains one each of above wrenches.

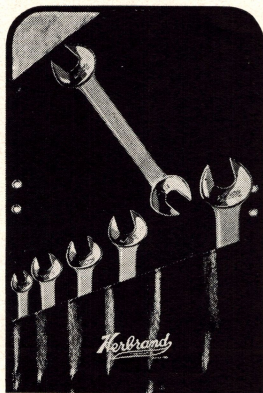
LIST PRICE, in box \$6.00; in pocket leatherette case \$6.70



"VAN-CHROME" AUTOMOTIVE WRENCHES

15° Angle Pattern

Drop Forged from Chrome Vanadium Steel



SET NO. 1025

"Van-Chrome" Automotive Wrenches are the lightest, thinnest, longest and strongest wrenches of their type. Drop forged from select Chrome Vanadium Steel, the finest alloy obtainable. Heat treated their entire length to give positive toughness and uniform durability.

The pointed jaws and thin narrow heads will reach into places where other wrenches can't. The extra length provides more leverage and accessibility. "Van-Chrome" wrenches will not break or spread under normal usage. Beautifully finished with satin nickel grips and mirror polished heads.

These Wrenches are recognized as the standard of comparison. Refinements in design have increased their efficiency and accessibility.

SET NO. 1025, shown above, carries one each of Nos. 1723, 1025, 1027C, 1028S, 1731A and 1033C.

LIST PRICE, in box \$7.35; in pocket leatherette case \$8.25

Refer to page 35 for individual "Van-Chrome" Wrench sizes.

"VAN-CHROME" AUTOMOTIVE WRENCH SELECTION TABLE

15° Angle Pattern

Wrench No.	Openings Milled	Length	Thickness Heads	List Price Each
1721	$\frac{5}{16}$ & $\frac{3}{8}$	5	$\frac{3}{16}$	\$.60
1021	$\frac{5}{16}$ & $\frac{13}{32}$			
1722	$\frac{5}{16}$ & $\frac{7}{16}$			
1723	$\frac{3}{8}$ & $\frac{7}{16}$			
1022	$\frac{5}{16}$ & $\frac{1}{2}$	$5\frac{3}{4}$	$\frac{13}{64}$	70
1023	$\frac{13}{32}$ & $\frac{1}{2}$			
1723A	$\frac{3}{8}$ & $\frac{1}{2}$			
1024	$\frac{13}{32}$ & $\frac{19}{32}$			
1725	$\frac{7}{16}$ & $\frac{1}{2}$	$6\frac{1}{2}$	$\frac{15}{64}$.85
1725A	$\frac{7}{16}$ & $\frac{9}{16}$			
1725B	$\frac{1}{2}$ & $\frac{9}{16}$			
1025	$\frac{1}{2}$ & $\frac{19}{32}$			
1726	$\frac{1}{2}$ & $\frac{5}{8}$			
1026	$\frac{1}{2}$ & $\frac{11}{16}$	$7\frac{1}{4}$	$\frac{17}{64}$.95
1727	$\frac{9}{16}$ & $\frac{5}{8}$			
1027	$\frac{19}{32}$ & $\frac{11}{16}$			
1027C	$\frac{9}{16}$ & $\frac{11}{16}$			
1728	$\frac{9}{16}$ & $\frac{3}{4}$			
1028	$\frac{19}{32}$ & $\frac{25}{32}$	$8\frac{5}{16}$	$\frac{19}{64}$	1.20
1028S	$\frac{5}{8}$ & $\frac{25}{32}$			
1729	$\frac{5}{8}$ & $\frac{3}{4}$			
1029	$\frac{11}{16}$ & $\frac{25}{32}$			
1030	$\frac{11}{16}$ & $\frac{7}{8}$			
1731	$\frac{3}{4}$ & $\frac{13}{16}$			
1731A	$\frac{3}{4}$ & $\frac{7}{8}$	$9\frac{3}{8}$	$\frac{23}{64}$	1.60
1031	$\frac{25}{32}$ & $\frac{7}{8}$			
1731B	$\frac{13}{16}$ & $\frac{7}{8}$			
1032	$\frac{25}{32}$ & $\frac{31}{32}$			
1033A	$\frac{7}{8}$ & $\frac{15}{16}$			
1033	$\frac{7}{8}$ & $\frac{31}{32}$			
1733	$\frac{7}{8}$ & 1	$10\frac{3}{4}$	$\frac{27}{64}$	2.15
1033C	$\frac{15}{16}$ & 1			
1034	$\frac{7}{8}$ & $\frac{11}{16}$			
1734	$\frac{7}{8}$ & $\frac{11}{8}$			
1035	$\frac{31}{32}$ & $\frac{11}{16}$			
1735	1 & $\frac{11}{8}$			
1036	$\frac{31}{32}$ & $\frac{11}{4}$	$12\frac{1}{4}$	$\frac{31}{64}$	2.90
1736	1 & $\frac{11}{4}$			
1037	$\frac{11}{16}$ & $\frac{11}{4}$			
1737	$\frac{11}{8}$ & $\frac{11}{4}$			

Extra Long Wrenches, 22½° Angle Pattern

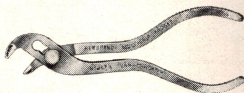
241	$\frac{3}{4}$ & $\frac{7}{8}$	15	$\frac{7}{16}$	\$2.60
242	$\frac{15}{16}$ & $\frac{11}{16}$	16	$\frac{1}{2}$	2.80
243	1 & $\frac{11}{8}$	16	$\frac{1}{2}$	2.80

ORIGINAL "VAN-CHROME" MULTIGRIP PLIERS

Be Sure To Get The Genuine
Drop Forged from Chrome Vanadium Steel



NO. 167



NO. 167 1/2

MULTIGRIP MIDGETS NO. 167 and NO. 167 1/2

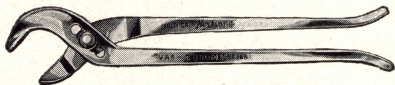
Little giants of capacity and utility for ignition, radio and general electrical work. No. 167 has finger tip control handles. No. 167 1/2 full grip handles. Range 0" to 7/16", lgth. 4 1/2", Wgt. 2 oz.

NO. 167-S, Satin nickel, polished head. LIST PRICE, *each*. \$1.20

NO. 167-N, Hand polished nickel. LIST PRICE, *each*. 1.50

NO. 167 1/2-S, Satin nickel, polished head. LIST PRICE, *each* 1.30

NO. 167 1/2-N, Hand polished nickel. LIST PRICE, *each*. . . 1.60



MULTIGRIP JUNIOR NO. 168

A versatile tool for general service—replaces the conventional type plier. It fits the popular sizes of S.A.E. nuts and the handy 7 1/2" length and small head are very convenient for reaching into close quarters. Range 0" to 3/4", Length 7 1/2", Weight 4 1/2 oz.

NO. 168-S, Satin nickel polished head. LIST PRICE, *each*. \$1.60

NO. 168-N, Hand polished nickel. LIST PRICE, *each*. 2.10



MULTIGRIP PLIERS NOS. 166 and 166 1/2

Originated by Herbrand to fit water pump pack nuts on all cars. These pliers serve such an extremely wide variety of uses that they are recognized as the most important tool in the mechanic's kit. No. 166 has 5 slip joint adjustments and range of jaw opening from 3/8" to 1 7/8", Length 9 1/2", Weight 8 oz.

NO. 166-S, Satin nickel, polished heads. LIST PRICE, *each* \$1.80

NO. 166-N, Full polished nickel. LIST PRICE, *each*. 2.50

NO. 166 1/2 is designed with 7 different positions of adjustments providing jaw capacity from 0" to 2", Length 9 3/4", Weight 12 oz.

NO. 166 1/2-S, Satin nickel, bright heads. LIST PRICE, *each* \$2.00

NO. 166 1/2-N, Full polished nickel. LIST PRICE, *each*. 2.70



SET NO M-3



SET NO. M-2



SET NO. B-3

MULTIGRIP PLIER SET NO. M-3

Here is the greatest labor saving combination ever offered. It contains one each of the three distinctive "Van-Chrome" Multi-grips, Nos. 167, 168 and 166½ which are described on page 36. This handy Hip Pocket Kit will save hours of time and labor ordinarily consumed in searching for a multitude of individual tools which they replace.

LIST PRICE, *complete with satin nickel pliers*.....\$4.80

LIST PRICE, *complete with polished nickel pliers*..... 6.30

SERVICE STATION UTILITY KIT NO. M-2

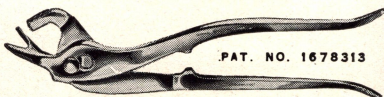
This two pocket leather holster carries the No. 168-S Multigrip Junior Plier and No. 312 Screw Driver. These are the two most necessary tools around the service station. The holster is designed with slits to slip through the operator's belt keeping these two tools always ready for immediate use. The 168-S Plier covers a much wider range of service than the conventional type and the No. 312 Screw Driver is a convenient size for general use.

LIST PRICE, *complete in leather holster*.....\$3.30

BATTERY SERVICE SET NO. B-3

The three tools in this Kit are recognized by battery experts as the most essential and efficient for practically any type of battery service work. It carries the patented Battery Terminal Lifter and Scraper No. 177, the improved 30° angle No. 179-S Battery Plier with curved hand fit grip and No. 276 Battery and Starter Nut Wrench. Tools are fully described on page 38.

LIST PRICE, *complete in pocket leatherette roll*.....\$5.55



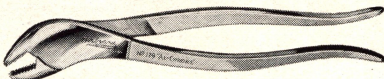
"VAN-CHROME" TERMINAL LIFTER AND SCRAPER NO. 177

Drop Forged from Chrome Vanadium Steel

Under the powerful leverage of this tool, badly frozen or corroded battery terminals snap up easily without marring, cracking, or loosening the plates or injuring the tops of the cells. A special release joint dismembers the plier, providing one section with a serrated nose for cleaning terminals and the other with sharp jaws for scraping posts. Polished nickel finish.

Length 10 $\frac{1}{2}$ ", Weight 13 $\frac{1}{2}$ oz.

LIST PRICE, *each*.....\$3.20



"VAN-CHROME" BATTERY PLIER NO. 179

Drop Forged from Chrome Alloy Steel

This popular, improved battery plier is original Herbrand design. The gripping jaws are serrated to take positive hold of terminal nuts, even though badly corroded, mutilated or eaten away. The jaws are set at 30° angle for easy accessibility, regardless of position of battery. The nose is tapered both sides to clear filler caps. Handles are curved for hand-fit grip.

Range $\frac{5}{32}$ " to 1", Length 8", Weight 7 oz.

NO. 179-S, Satin nickel, bright head. LIST PRICE, *each*..\$1.60

NO. 179-N, Hand polished nickel. LIST PRICE, *each*.... 2.00



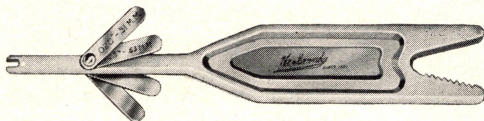
BATTERY AND STARTER NUT WRENCH NO. 276

Drop Forged from Select Tool Steel

Here is a specially designed box type wrench with 12-point openings for either the removal or installation of the battery cable. One end has a $\frac{9}{16}$ " opening and fits battery terminal bolt nuts, the other end has a $\frac{5}{8}$ " opening and fits the copper nut on the starter switch, or starter motor connection. Satin nickel plate, buffed heads.

Length 6", Weight 2 $\frac{1}{2}$ oz.

LIST PRICE, *each*.....\$.75



"VAN-CHROME" SPARK PLUG TOOL NO. 140

The Three-in-one Tool

FOR GAP ADJUSTING AND ACCURATE GAUGING

Drop Forged from Chrome Vanadium Steel

Proper firing of spark plugs depends much upon the proper spacing of the firing points. Here is the tool that eliminates "thin dime" methods and does the job with 100% accuracy. It carries the four feeler gauge sizes required to space the gap between the electrodes on all types of spark plugs. These gauges are the exact thickness recommended by spark plug and automobile manufacturers.

The adjusting end is machined with the proper slot for setting the electrodes to the exact spacing required for motor efficiency. It avoids damaging or snapping off firing points.

The handle end is forged with an alligator jaw for removing or tightening the spark plug terminals. The serrated teeth take a firm hold without damaging the nut. Finished in satin nickel with bright plated gauges.

Size of gauges .020"-.51 M.M., .025"-.63 M.M., .030"-.76 M.M., .35"-.89 M.M.

Length 5", Weight 2 oz.

LIST PRICE, *each*.....\$.90



"VAN-CHROME" CARBON SCRAPER NO. 345

Forged from Chrome Tungsten Tool Steel

Designed to reach and get all of the carbon in every part of any motor head, this popular spoon-type carbon scraper is the most versatile of any produced. It has sharp knife-like edges, one straight, the other oval in design.

Forged from $\frac{5}{16}$ " Chrome Tungsten Steel, with octagon handle for a firm grip. Heat treated and tempered, finished in satin nickel with brightly polished blades.

Length 9", Weight 4 oz.

LIST PRICE, *each*.....\$1.00



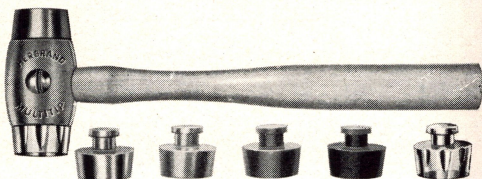
NEW PROTECTOTIP HAMMERS

Shatterproof Detachable Pyralin Tips

A new hammer with very tough, resilient tips of Pyralin which are easily replaceable. They are without equal for tapping valves in blocks, ignition and distributor work or where highly finished, delicate parts would be injured by hard, metal hammers. Especially useful for fitting piston rings, wrist pins, gears, bearings and the like. Made in three sizes to accommodate any range of work. The center body is nickeled steel with the best quality hickory handle which locks securely.

Each

NO. 650 Hammer, 5 oz., Tips $\frac{3}{4}$ " diam...	LIST PRICE..	\$1.70
NO. 651 Extra Pyralin Tips.....	LIST PRICE..	.45
NO. 652 Hammer, 8 oz., Tips 1" diam....	LIST PRICE..	1.90
NO. 653 Extra Pyralin Tips.....	LIST PRICE..	.50
NO. 654 Hammer, 12 oz., Tips $1\frac{3}{16}$ " diam.	LIST PRICE..	2.10
NO. 655 Extra Pyralin Tips.....	LIST PRICE..	.60



MULTITIP 5 IN 1 HAMMER

Five Interchangeable Tips

A necessary part of every expert mechanic's equipment in garages, body and fender shops. Indispensable for fitting piston pins, wrist pins, and the like, because blows from the Multitip will not draw the metal nor bruise the work. Reduces rebounding to the minimum. The head tips, and handle are securely locked in the drop forged head with a special screw and lock washer. Inserting new tips is a matter of seconds and provides a new hammer for the mere cost of the tips. Weight with two tips $1\frac{1}{2}$ lbs. Nickel plated head, hickory handle.

NO. 130 MULTITIP HAMMER with 1 each of 5 different interchangeable tips.	LIST PRICE, complete.....	\$4.85
NO. 131 Extra Pyralin Tip.....	LIST PRICE, each.....	.90
NO. 132 Extra Copper Tip.....	LIST PRICE, each.....	.80
NO. 133 Extra Lead Tip.....	LIST PRICE, each.....	.40
NO. 134 Extra Composition Tip	LIST PRICE, each.....	.25
NO. 135 Extra Rubber Tip.....	LIST PRICE, each.....	.20



HERBRAND MODERNIZING
T O O L B O A R D S
M A K E E V E R Y S T A T I O N A
ONE STOP
S E R V I C E C E N T E R



This is the day of One Stop Service. The best equipped stations get the business because motorists patronize those modern service centers which display modern service facilities. The special tools shown on the Herbrand Modernizing Boards described and illustrated on the following pages, invite business and sell their own service.



BOARD NO. SS-15

SPECIALIZED TIRE SERVICE TOOL BOARD NO. SS-15

Tire service demands the utmost in speed. There never was a time when modern equipment was more vital to profits and success. Special tools to meet every tire service requirement are absolutely essential today.

NO. SS-15 Board carries an assortment of fifteen modern speed tools specially designed for easier and better tire changes and repair work.

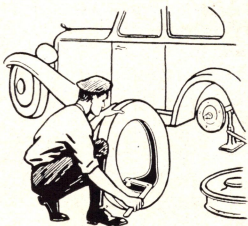
NOS. 1124, 1125, 1126, 1127, 1128, 1130, 1131, 1132, 1133, 171, 172, 173, 1050X, 443 and 403, which are illustrated and described on pages 50 to 58, also 72 and 74.

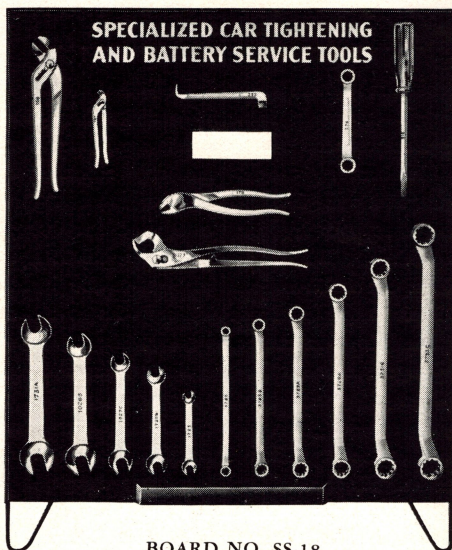
Size of board 27" x 32". Weight, tools and board 44 lbs.

LIST PRICE, <i>tools only</i>	\$15.85
LIST PRICE, <i>board only</i>	8.50
LIST PRICE, <i>complete</i>	24.35

SPECIALIZED TIRE TOOLS THAT MODERNIZE SERVICE FOR SPEED AND PROFIT

Only modern, Specialized Tire Tools make it possible for you to meet the new competition of ONE STOP Stations which are intensively driving for this profitable service work. Modern merchandising demands that you give your customers visual demonstration that you are fully equipped for complete, dependable, ONE STOP service. The SS-15 Specialized Tire Tool Board sets the stage for increased sales, invites new business and sells its own service. This board in your station is convincing evidence of your progressiveness in meeting today's demands and will rapidly swing more tire work, tire sales and steady customers your way. You can't meet competition and make a profit with old fashioned or worn out tools. Herbrand modern speed tools have changed tire service methods from the slow non-profit way to an efficient profit making feature. These all metal portable boards are constructed from heavy gauge steel, strongly reinforced with a sturdy easel back and supported on rigid legs. The conveniently located carrying handle is turned with a smooth round grip making it easy to move from job to job. The tool holders are permanently welded to the board and shaped so that the tools will not fall off when carrying. There is a handy tray fastened to the bottom of the board for holding extra valve stems, nuts, valve insides and other parts. Beautifully finished in blue lacquer with silver lettering.





BOARD NO. SS-18

SPECIALIZED CAR TIGHTENING AND BATTERY SERVICE BOARD NO. SS-18

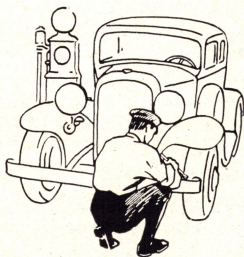
The tools on this board have been selected by expert mechanics as being necessary for car tightening and battery service work. NO. SS-18 board carries one each of the following Car Tightening and Battery Tools, numbers 3723, 3725B, 3727A, 3729A, 3731B, 3733C Box Wrenches; Number 166-S Water Pump and General Service Plier; Number 167-S Midget Plier; Numbers 1723, 1725B, 1027C, 1028S, 1731A "Van-Chrome" Open End Wrenches; Numbers 177, 179-S, 276 Battery Tools; Number 353 Offset Screw Driver; Number 316 Insulated Handle Screw Driver. There are 18 tools in all which are illustrated and described in this catalog.

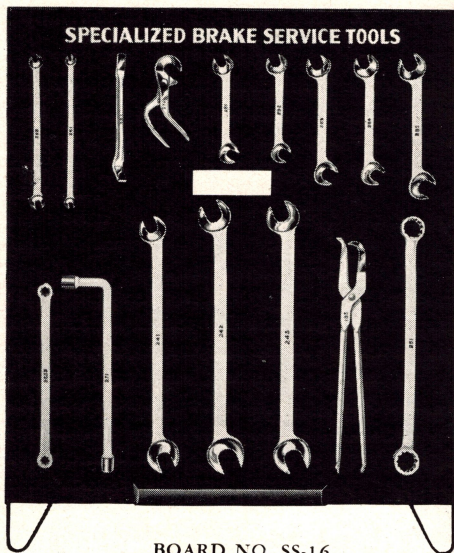
Size of board 27" x 32". Weight, tools and board 31 lbs.

LIST PRICE, <i>tools only</i>	\$23.65
LIST PRICE, <i>board only</i>	8.50
LIST PRICE, <i>complete</i>	32.15

SPECIAL CAR TIGHTENING TOOLS INCREASE SERVICE AND BRING MORE PROFITS

Every car owner dislikes the squeaks and rattles that always develop. Increased speeds, safety and the desire for maximum riding comfort demand that particularly the vital spots on a car be kept securely tightened. With this board you have the means of selling expert car tightening and battery service work because it carries the assortment of tools selected by skilled mechanics, and endorsed by many prominent ONE STOP Stations, as being the best suited and adequate for this special work. The tools on this board will enable you to render efficient service on bumpers, fenders, running boards, floor boards, hood clamps, spring bolts, instrument boards, wheels, engine bolts, body bolts, axle bolts—in fact any tightening job or battery work. The wrenches are designed with special angles in both box and open end types and the board also carries special Pliers, Screw Drivers and efficient Battery Tools covering the complete range required for this service. Here is your opportunity to develop new and profitable business because this is the day of ONE STOP service and those stations that have anticipated the possibilities of the extra profits from car tightening business, are equipped with the proper tools, prominently displayed to convince the trade that they are prepared to service all cars, speedily and efficiently. The sales power of these modern, specialized tools which are carried on this specially constructed portable board invites business that you may be passing up.





BOARD NO. SS-16

SPECIALIZED BRAKE SERVICE TOOL BOARD NO. SS-16

Only modern, specialized brake tools make it possible for you to meet the new competition of one-stop service stations who are intensively driving for this profitable service work. This board represents not just an ordinary collection of tools but a highly specialized assortment for the scientific adjustment of brakes to conform to safety standards.

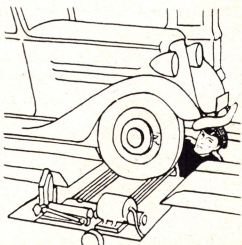
NO. SS-16 Board carries one each of the following Specialized Brake Service Tools, Numbers 183, 241, 242, 243, 251, 261, 262, 271, 272, 281, 282, 283, 284, 285, 301 and 2333, sixteen tools in all which are described in detail on pages 62 to 66.

Size of board 27" x 32". Weight, tools and board 32 lbs.

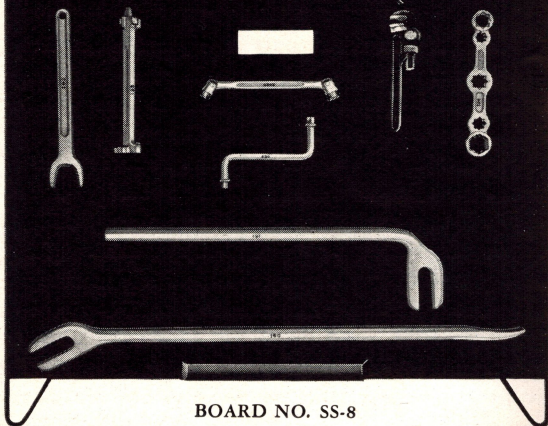
LIST PRICE, <i>tools only</i>	\$28.25
LIST PRICE, <i>board only</i>	8.50
LIST PRICE, <i>complete</i>	36.75

SPECIALIZED BRAKE SERVICE TOOLS BRING EXTRA PROFITS

One out of every three cars in operation has faulty and dangerous brakes. The growing activity in favor of state laws compelling car owners to have periodic brake inspection, indicates a definite upturn in the brake service industry. The board illustrated offers a real value in showmanship, display and power to create customer confidence and attract new business, increased sales and extra profits. The ability of any garage, service station or car dealer to render complete brake service is measured by their equipment. Display this board and convince your customers that you have the last word in brake service tools. It carries the necessary tools for work on Bendix, Lockheed-Hydraulic, Midland Steeldraulic and individual types of brakes. These Specialized Brake Service Boards are fabricated from heavy gauge steel with a one inch flange all around and are sturdily braced to prevent sagging or bending. A convenient round grip handle is provided in the center of the board which permits carrying them right to the job. The tool holding hooks are permanently welded to the board and are so constructed that the tools cannot fall off when the board is moved about. These boards are supported on rigid legs by a sturdy swinging type easel and have a very handy metal tray at the bottom which is always useful for holding nuts, bolts, and spare parts. Handsomely finished in durable blue lacquer with silver lettering.



CERTIFIED LUBRICATION TOOLS



BOARD NO. SS-8

**SPECIALIZED LUBRICATION SERVICE
TOOL BOARD NO. SS-8**

Herbrand Specialized Greasing Tools are universally known and accepted as the standard throughout the industry. They have been carefully engineered to get maximum results without the hazard of bending, distorting or otherwise damaging costly parts on cars.

NO. SS-8 Board carries one each of the following eight tools which are described on pages 59 to 61.

- NO. 190 Grease Bar for frozen shackles.
- NO. 191 Grease Bar for front spring shackles.
- NO. 192 Greasing Tool for Tryon shackles.
- NO. 193 Drain Plug Wrench for all female plugs.
- NO. 194 Drain Plug Wrench for all male plugs.
- NO. 290 Clutch Plug Wrench for Hudson Essex.
- NO. 6825 Clutch Pan Nut Wrench.
- Eight inch Super-Strength Pipe Wrench.

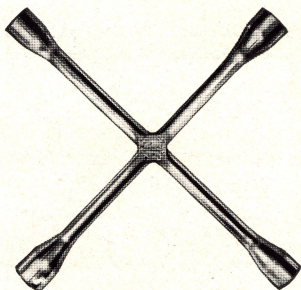
Size of board 27" x 32". Weight, tools and board 36 lbs.

LIST PRICE, <i>tools only</i>	\$13.10
LIST PRICE, <i>board only</i>	8.50
LIST PRICE, <i>complete</i>	21.60

CERTIFIED LUBRICATION TOOLS CUT COSTS AND IMPROVE SERVICE

The development of new features on the modern motor car has created many more lubricating points which makes it necessary for the car owner to have his car lubricated more frequently. The business of correct, specialized lubrication has been growing steadily and service station and garage men realize the importance of replacing obsolete, inefficient, and unprofitable equipment because they are alert to the fact that the modern equipped stations are getting the more profitable business. The trend in modern merchandising methods has been to provide the customer with greater assurance that the lubrication work on his automobile has been done correctly and the array of specially designed greasing tools on the portable Herbrand board plays no small part in convincing him that you have modern facilities for delivering certified lubrication. This board offers a real value in showmanship, display and ability to create customer confidence and attract new business, increased sales and extra profits. "Just ordinary" grease jobs will no longer get by and "just ordinary" methods and makeshift tools cannot provide the quality of work that the car owner demands today because he has learned to know that cheap jobs are the most costly in the long run. The attractive Herbrand Board of Special Lubrication Tools properly displayed is a constant reminder to him that you are equipped to deliver better work and he gets better results when he employs you regularly.





FOUR-WAY RIM WRENCH NO. 1050X

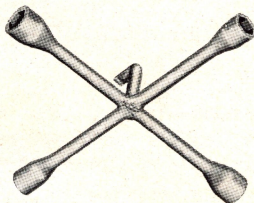
New Improved Design—No Welds

Drop Forged in One Solid Piece

Powerful leverage and plenty of clearance with this perfectly balanced Super Four-Way Rim Wrench. This new improved design has extra deep, tapered sockets that fit down snugly. Equipped with the new popular openings $\frac{5}{8}$ ", $\frac{3}{4}$ ", $\frac{13}{16}$ " and $\frac{7}{8}$ ", it fits most passenger car and light model truck rim nuts. Heat treated and finished in satin nickel.

Length 13", Weight $2\frac{1}{4}$ lbs.

LIST PRICE, *each*.....\$1.45



FOUR-WAY RIM WRENCH AND HUB CAP REMOVER NO. 1055X

Drop Forged—No Welds

4-Way Rim Wrench with easy Hub Cap Removing Feature, it is perfectly designed to pull the cap instantly without marring either the cap or the wheel. The Hub Cap Prong is permanently anchored into the one piece drop forged 4-Way Rim Wrench and it cannot pull out or break. Equipped with the popular openings $\frac{5}{8}$ ", $\frac{3}{4}$ ", $\frac{13}{16}$ " and $\frac{7}{8}$ ". Satin nickel finish.

Length 13", Weight $2\frac{1}{4}$ lbs.

LIST PRICE, *each*.....\$1.70



NO. 1150A



NO. 1150B



NO. 1150C

UNIVERSAL TRUCK RIM WRENCH SET NO. 1150T

Seven Different Opening Sizes

Forged from a Solid Bar of Steel

When powerful, pulling leverage is needed, these wrenches never fail: They carry the combination of seven openings (2 square openings inside of the hex sockets), which makes the set a universal truck rim wrench. No. 1150A is adaptable to Ford and No. 1150B to Chevrolet Dual Wheels because the proper combination of openings are grouped in the individual bars.

Forged from solid bars of select tool steel with extra deep sockets. Heat treated throughout to withstand gruelling punishment. The 20" hex handle slides through the opening in each wrench, acting as a T handle, and creating a powerful leverage that starts the most stubborn nuts easily. Satin nickel finish.

Weight of set complete, 12 1/2 lbs.

NO. 1150A, 15 7/8" long, has openings 1 1/2" hex, 1 1/8" hex and 13/16" square.

LIST PRICE, each.....\$1.75

NO. 1150B, 15 7/8" long, has openings 1 1/4" hex, 7/8" hex and 5/8" square.

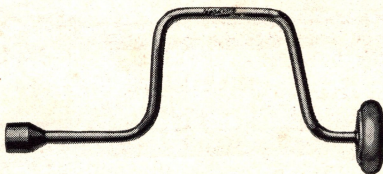
LIST PRICE, each..... 1.75

NO. 1150C, 20" long, leverage bar, has 1 1/16" hex opening.

LIST PRICE, each..... 1.30

SET NO. 1150T, 1 each of above, 3 pieces in all.

LIST PRICE, complete..... 4.80



FORGED BRACE RIM WRENCHES

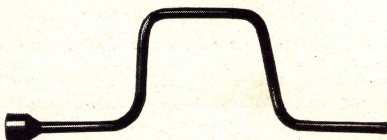
With Revolving Cap Handle

The solid forged sockets are extra deep to permit a firm grip on the acorn nuts used on wire and disc wheels. Available in five sizes as follows: No. 1010, $\frac{5}{8}$ "; No. 1011, $\frac{11}{16}$ "; No. 1012, $\frac{3}{4}$ "; No. 1013, $\frac{13}{16}$ "; No. 1014, $\frac{7}{8}$ ".

Length $15\frac{1}{4}$ ", Weight $1\frac{1}{2}$ lbs.

LIST PRICE, *each*, Black enamel.....\$.55

LIST PRICE, *each*, Satin nickel..... .60



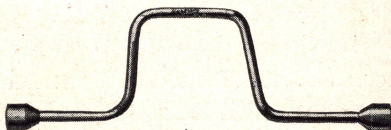
With Plain Handle

Forged from a single piece of high carbon steel, heat treated throughout, with sockets that will not break, spread, or twist off at the shank. Made in five sizes—No. 1110, $\frac{5}{8}$ "; No. 1111, $\frac{11}{16}$ "; No. 1112, $\frac{3}{4}$ "; No. 1113, $\frac{13}{16}$ "; No. 1114, $\frac{7}{8}$ ".

Length 17", Weight $1\frac{1}{2}$ lbs.

LIST PRICE, *each*, Black enamel.....\$.45

LIST PRICE, *each*, Satin nickel..... .50



No. 1213 With Double Socket

Combined in this wrench are the two popular sizes most frequently used for tire changes. One end has a $\frac{3}{4}$ " socket and the other end has a $\frac{13}{16}$ " socket.

Length 17", Weight 1 lb., 10 oz.

LIST PRICE, *each*, Black enamel.....\$.60

LIST PRICE, *each*, Satin nickel..... .65



"VAN-CHROME" TIRE VALVE STEM WRENCHES

Drop Forged from Chrome Vanadium Steel

The thin, tapered heads of these wrenches are slotted to slip over any type valve stem nut and operate easily where obstructions are close. The 12-point, box type openings take hold with a clean, positive grip that prevents slipping and damaging enamel on rims and spokes. They are especially efficient on wire wheels and permit maximum turning in the limited space between spokes. They assure quicker and easier tire changes and carry the popular combinations of openings. Satin nickel finish, mirror polished heads.

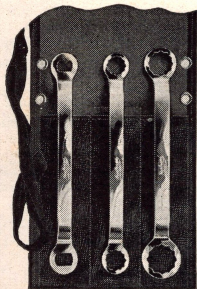
NO. 173, $1\frac{1}{16}$ " and $\frac{3}{4}$ " openings, Length $6\frac{1}{2}$ ", Weight 4 oz.

LIST PRICE, *each*.....\$1.40

NO. 174, $\frac{7}{8}$ " and $1\frac{1}{8}$ " openings, Length $7\frac{1}{2}$ ", Weight $6\frac{1}{2}$ oz.

LIST PRICE, *each*..... 1.60

TIRE, VALVE STEM AND BASE NUT WRENCHES



Carefully engineered with just the right angle on the offset heads for easy clearance and a full, free swing.

No. 170 has 12-point openings that adapt it to most valve stem jam nuts.

No. 171 has 12-point openings to fit the valve stem base nuts and clears the flange fully. A necessary tool because all valve base nuts should be tightened before new tube is placed in casing.

No. 172 has oval openings that hold the valve stem rigid without damaging threads while the base nut is being tightened. These two tools (Nos. 171 and 172) eliminate the use of a vise.

NO. 172 NO. 171 NO. 170

Length 8", Weight $3\frac{1}{2}$ oz. each. Satin nickel finish.

NOS. 170, 171, 172

LIST PRICE, *each*\$.70

SET NO. 175, One each of three wrenches, Nos. 170, 171 and 172, in flannel lined leatherette roll.

LIST PRICE, *complete*..... 2.50



SPOON TYPE TIRE IRON NO. 1126

Straight Pattern

Drop Forged from Tool Steel

Herbrand's master tire irons were designed by tire experts for tire service men. The broad, thin paddle shaped blade takes hold of a larger area lifting the tire from the rim in a few easy strokes with a minimum of effort and time. The blunt handle end is designed to drive dual tires and rings on or off. These irons are extra strong to handle bus, truck and all passenger car tires. Finished in satin nickel plate.

Length 18", Weight 2 lbs.

NO. 1126, LIST PRICE, *each*.....\$1.00

NO. 1126F, LIST PRICE, *each* (without blunt handle end) . .85



SPOON TYPE TIRE IRON NO. 1127

Curved Pattern

Drop Forged from Tool Steel

Master tire irons No. 1127 and No. 1126 are usually sold in pairs. The curved blade in combination with the straight one make an unbeatable pair. They are perfectly balanced for ease of handling, and the broad blades avoid bruises and damage to the tire. Efficient on drop center rims. Satin nickel plate finish.

Length 18", Weight 2 lbs.

NO. 1127, LIST PRICE, *each*.....\$1.05

NO. 1127F, LIST PRICE, *each* (without blunt handle end) .90



SPECIAL RIM AND TIRE IRON NO. 1125

Long Leverage

Drop Forged from Tool Steel

Shaped just right for efficient use and 20" long for extra leverage, this tool is exceptionally well balanced. An outstanding feature that all tire men will appreciate is the recessed grooves on the top and bottom of the working end. The round recess on the top hooks into the corner of the rim and holds it positively in place while the elongated groove on the bottom hooks into the opposite corner of the rim and rides the two rim ends together. This tool makes tire changes easier and faster and eliminates the hazards of slipping. Satin nickel plate all over.

Length 20", Weight 1 lb., 12 oz.

LIST PRICE, *each*.....\$.90



RING TOOL NO. 1120

Drop Forged from Tool Steel

A necessary tool for removing and replacing the lock rings on the various types of wheels on which these rings are standard equipment. Heat treated, smoothly ground and finished in satin nickel.

Length 15 1/2", Weight 1 1/2 lbs.

LIST PRICE, each.....\$.70



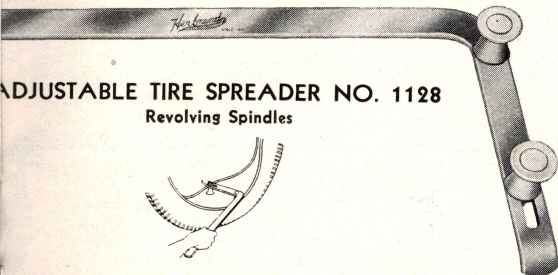
RIM AND TIRE TOOL NO. 1121

Drop Forged from Tool Steel

Practically all types of rims are unlocked with this tool. It also makes a handy iron for all tire changes. Heat treated throughout, ground smooth and finished in satin plated nickel all over.

Length 15 1/2", Weight 1 1/2 lbs.

LIST PRICE, each.....\$.70



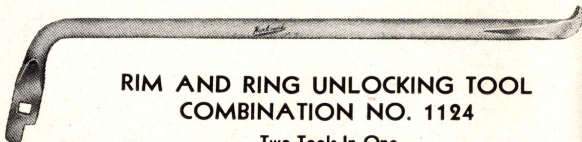
ADJUSTABLE TIRE SPREADER NO. 1128

Revolving Spindles

A very practical and necessary tool for tire shops, service stations and all garages. The spindle rollers rotate freely and slip easily into the opening of the casing, spreading it with a simple pull of the long leverage handle which is set at a 96° angle for maximum clearance. The end of the bar is curved to clear the opposite side of the casing. The adjustable feature is designed so that the end roller may be set to spread tires from 5 1/2" to 7 3/4". Double plated satin nickel finish.

Length 18 1/2", Weight 2 lbs., 12 oz.

LIST PRICE, each.....\$2.00



RIM AND RING UNLOCKING TOOL COMBINATION NO. 1124

Two Tools In One

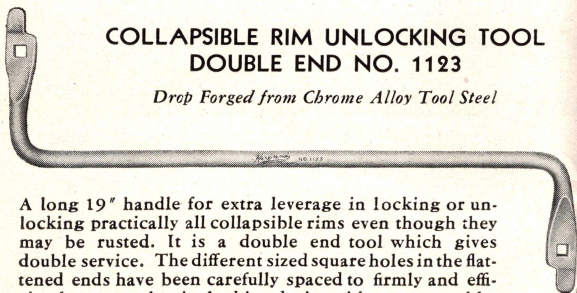
Drop Forged from Chrome Alloy Tool Steel

Engineered for faster and easier rim work. One end is designed to quickly unlock or lock practically any type collapsible rim. The square hole is set in the proper place for engaging the locking device with greatest efficiency and the 19" length provides ample leverage. The opposite end is forged into a speedy ring unlocking tool for the easy removal and replacement of retaining rings on wire, disc or Budd wheels. It is a double end tool that combines two tools in one.

Drop forged from $\frac{3}{4}$ " round Chrome Alloy Steel and extra powered by heat treatment throughout to stand up under hard usage. It is finished in attractive double satin nickel which is rust resisting.

Length 19", Weight 2 lbs., 4 oz.

LIST PRICE, *each*.....\$1.15



COLLAPSIBLE RIM UNLOCKING TOOL DOUBLE END NO. 1123

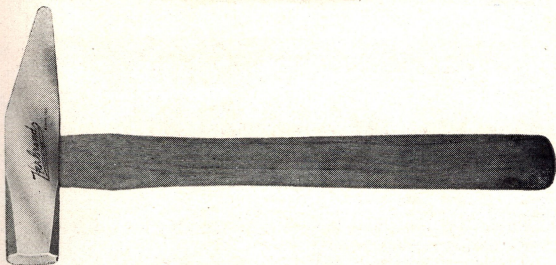
Drop Forged from Chrome Alloy Tool Steel

A long 19" handle for extra leverage in locking or unlocking practically all collapsible rims even though they may be rusted. It is a double end tool which gives double service. The different sized square holes in the flattened ends have been carefully spaced to firmly and efficiently engage the rim locking device without any trouble. Double satin nickel finish and heat treated from end to end.

There is a good replacement sale through jobbers because most tools of this nature now in the field are invariably poorly heat treated or not hardened at all and many of the cheaper tools do not have leverage or length of handle for opening rusted rims.

Length 19", Weight 1 lb., 14 oz.

LIST PRICE, *each*.....\$1.10



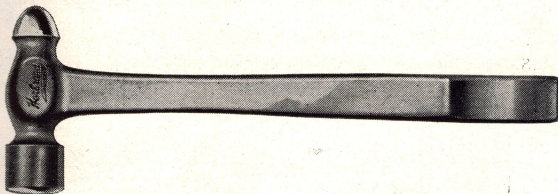
"VAN-CHROME" TIRE HAMMER NO. 1130

Drop Forged from Chrome Alloy Steel

An unusually well balanced hammer especially designed for removing tires that cling stubbornly to the rims. Extremely tough but not brittle eliminating the danger of chipping or flying pieces. All corners are rounded or bevelled so that they cannot damage tire or rim. The head is firmly anchored to the handle. Finished in satin nickel. High quality hickory handle.

Length 14", Weight 3 ½ lbs.

LIST PRICE, each.....\$2.40



ALL STEEL BALL PEIN HAMMER AND TIRE TOOL NO. 165

Drop Forged in One Piece

Here is the hammer that will stand up under all conditions. The head cannot come loose and the handle will not break because it is a solid drop forging made from one piece of steel. The end of the handle is forged in the shape of a tire tool. It is not only an ideal tire tool but is mighty useful for all sorts of prying and lifting jobs.

Length 11", Weight 1 lb., 8 oz.

NO. 165-B, Black enamel, LIST PRICE, each.....\$1.25

NO. 165-S, Satin nickel, LIST PRICE, each..... 1.35



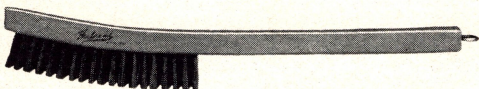
TIRE AWL NO. 1131

Handfit Wood Handle

Ideal for removing glass, nails, tacks, stones or other objects that become imbedded in tires. The broad, tapered blade is shaped to spread the rubber, while the blunt point removes foreign objects without danger of penetrating the tube. Blade is satin nickel plated.

Length 7", Weight 2 oz.

LIST PRICE, each.....\$.30



TIRE AND RIM BRUSH NO. 1132

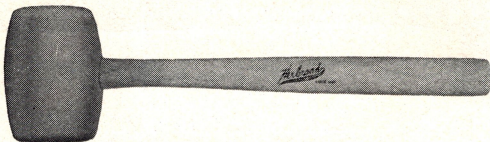
Curved Wood Handle

For Cleaning Rims and Casings

A good quality brush made of stiff, round steel wire. The 14" handle is curved to reach easily into the casings for cleaning. Handy for removing rust and dirt from rims and other metal parts. The brush part is 6" long.

Length 14", Weight 14 oz.

LIST PRICE, each.....\$.45



TIRE MALLET NO. 1133

Solid Rubber Head

For Removing and Mounting Tires

The head of this mallet is solid resilient rubber that permits its practical use where a metal hammer would cause damage. It is intended for tire changes but is also popular for automotive body work, fender straightening and for use on materials that are subject to bruising and marring. The handle is firmly vulcanized into the head.

Length 15", Weight 1 ½ lbs.

LIST PRICE, each.....\$1.20



ONE-MAN GREASE BAR NO. 190

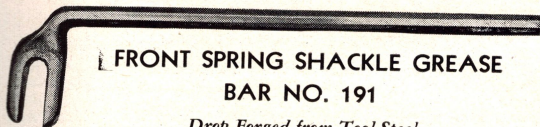
For Frozen Shackles

Drop Forged from Tool Steel

Frozen shackles are quickly freed and thorough greasing becomes an easy, one-man job with this scientifically designed bar. The fork end fits over the spring and applies side pressure instead of end pressure and is set at a 25° angle to give easy access to any type of spring. It clears the crankcase, muffler, fenders and grips three spring leaves and eliminates the hazard of bending, distorting or otherwise damaging the shackles in an effort to force grease through the bushings. The long, thin pry end with the knurled base prevents slipping. Drop forged from $\frac{3}{4}$ " octagon tool steel, heat treated and finished in satin nickel.

Length 30", Weight 4 $\frac{3}{4}$ lbs.

LIST PRICE, each.....\$2.50



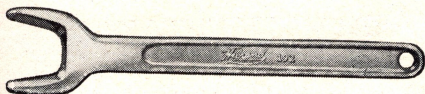
FRONT SPRING SHACKLE GREASE BAR NO. 191

Drop Forged from Tool Steel

Especially designed for quicker and more thorough lubrication of the front spring shackles. The head is placed at an angle of 90° to get around all obstructions and provide maximum handling efficiency, either on the lift or in the pit. Satin nickel.

Length 20", Weight 3 $\frac{1}{2}$ lbs.

LIST PRICE, each.....\$2.00



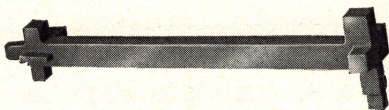
SPRING SHACKLE GREASING TOOL NO. 192

Drop Forged from Chrome Alloy Steel

Designed for prying Tryon Shackles with taper bushings. Briefly—this tool makes it a one-man job. Satin nickel finish.

Length 11", Weight 10 oz.

LIST PRICE, each.....\$1.10



"VAN-CHROME" DRAIN PLUG WRENCH NO. 193

Ten Tools In One For All Female Plugs

Drop Forged from Chrome Alloy Steel

Here, combined in one wrench, are the ten different sizes of lugs required to service all countersunk drain and filler plugs in the clutch, crankcase, transmission and differential on most automobiles and trucks. The lugs are forged accurately to size assuring perfect fit. The 9 inch length provides powerful leverage to easily remove stubborn plugs. Satin nickel finish.

Length 9", Weight 14 oz.

LIST PRICE, *each*.....\$1.60



"VAN-CHROME" DRAIN WRENCH NO. 194

Seven Wrenches In One For All Male Plugs

Drop Forged from Chrome Alloy Steel

A new drop forged Drain Plug Wrench, designed by Herbrand to fit the male plugs on crankcase, transmission and differential of practically all cars. It has seven different 6-point and 8-point openings combined in one wrench, properly sized to fit all late popular models including Ford, Chevrolet, Pontiac, Plymouth, Dodge, Buick, Studebaker, Olds and nearly all other makes. The openings are individually machined to precision limits which insures a perfect fit and prevents mutilating or otherwise distorting plugs. Heat treated and finished in satin nickel.

Length 9", Weight 11 oz.

LIST PRICE, *each*.....\$1.80



SHOCK ABSORBER WRENCH NO. 2341

For Ford Cars, All Models

Drop Forged from Chrome Vanadium Steel

Specially designed to fit the oil filler plugs on all Ford shock absorbers. The filler plugs on rear shock absorbers are set so close to the fender that it is difficult for an ordinary wrench to remove them. Satin nickel, polished head.

Length 5", Openings $\frac{7}{16}$ ", Weight $1\frac{1}{2}$ oz.

LIST PRICE, *each*.....\$.80



CRANK CASE DRAIN WRENCH NO. 2345

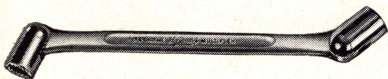
For Ford V-8

Drop Forged from Chrome Vanadium Steel

A special wrench with $\frac{15}{16}$ " and $1\frac{1}{16}$ " twelve point box openings. The $\frac{15}{16}$ " opening fits the crankcase drain plugs on Ford 1933 and 1934 models, and the $1\frac{1}{16}$ " opening fits 1932 Ford cars. Finished in satin nickel with heads polished.

Length 15", Weight 1 lb.

LIST PRICE, *each*.....\$2.60



"VAN-CHROME" CLUTCH PAN WRENCH NO. 6825

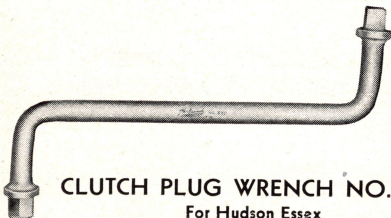
Swivel Heads

Drop Forged from Chrome Vanadium Steel

In the new Chrysler line, including the Chrysler, Dodge, DeSoto and Plymouth it is necessary to remove the clutch pan to lubricate the throw-out bearings. Field experiments have proved that Herbrand No. 6825 is best adapted to this purpose. It has swivel heads which adjust to any angle and twelve point openings of $\frac{1}{2}$ " and $\frac{9}{16}$ ". Finished in satin nickel with polished heads.

Length $8\frac{3}{4}$ ", Weight 8 oz.

LIST PRICE, *each*.....\$2.00



CLUTCH PLUG WRENCH NO. 290

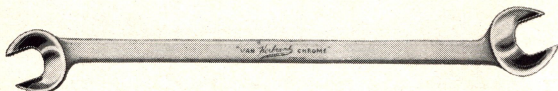
For Hudson Essex

Forged from Chrome Alloy Tool Steel

Necessary to remove the clutch filler plug on Hudson and Essex 1932 cars. One end has a $\frac{5}{16}$ " forged square plug, the other of $\frac{7}{16}$ " hexagon. Finished in satin plate.

Length $6\frac{1}{2}$ ", Weight 6 oz.

LIST PRICE, *each*.....\$.65



"VAN-CHROME" EXTRA LONG BRAKE WRENCHES

22½° Angle

Drop Forged from Chrome Vanadium Steel

Specially designed for anchor nuts on Bendix and other mechanical brakes both external and internal, these wrenches have extra length to provide ample leverage for heavy service. To adjust brakes correctly, U bolts, shackle bolts and spring perch nuts must first be properly tightened and these three wrenches will be found invaluable for this work. The extra long handles make it easy to work under cars and they will be found useful for many other jobs requiring strong, extra leverage wrenches, especially on trucks and tractors. Finished in satin nickel with bright heads

Wrench No.	Openings Milled	Length	Thickness Heads	List Price Each
241	¾ & 7/8	15	7/16	\$2.60
242	15/16 & 1 1/16	16	1/2	2.80
243	1 & 1 1/8	16	1/2	2.80



"VAN-CHROME" BOX WRENCH NO. 251 FOR BRAKE ADJUSTMENTS

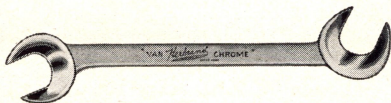
Extra Long—5/8" Offset—50° Angle

Drop Forged from Chrome Vanadium Steel

This wrench will clear obstructions and operate efficiently even where nuts are countersunk. It is designed for anchor studs on internal mechanical brakes and will also be found very useful for heavy duty work on tractors and large trucks. Heat treated and finished in double satin nickel with brightly polished heads. The twelve point openings fit 5/8" and 3/4" S.A.E. nuts also 5/8" U.S.S. Standard nuts. The 15" length is very important.

Twelve point openings 15/16" and 1 1/16", Length 15", Weight 1 lb.

LIST PRICE, each.....\$2.60



"VAN-CHROME" SPECIAL BRAKE WRENCHES

Special Angle— $22\frac{1}{2}^{\circ}$ and $62\frac{1}{2}^{\circ}$ Heads

Drop Forged from Chrome Vanadium Steel



SET NO. 280

Engineered to handle with ease both major and minor adjustments on all makes of cars and trucks. Brake service specialists will immediately appreciate the super efficiency of these unusually handy special angle wrenches. The extra narrow pointed heads insure clearance and the slim handles enable mechanics to work easily in confined places. Each end has the same size opening, one set at $22\frac{1}{2}^{\circ}$ the other at $62\frac{1}{2}^{\circ}$, providing the highest efficiency for brake service work. Drop forged from Chrome Vanadium Steel and heat treated. Satin nickel, heads polished.

Wrench No.	Openings Milled	Length	Thickness Heads	List Price Each
281	$\frac{9}{16}$ & $\frac{9}{16}$	$6\frac{1}{4}$	$\frac{1}{4}$	\$1.00
282	$\frac{5}{8}$ & $\frac{5}{8}$	$6\frac{1}{4}$	$\frac{1}{4}$	1.00
283	$\frac{11}{16}$ & $\frac{11}{16}$	$7\frac{9}{16}$	$\frac{9}{32}$	1.25
284	$\frac{3}{4}$ & $\frac{3}{4}$	$7\frac{9}{16}$	$\frac{9}{32}$	1.25
285	$\frac{7}{8}$ & $\frac{7}{8}$	$8\frac{3}{8}$	$\frac{9}{32}$	1.50

SET NO. 280 contains one each of above wrenches.

LIST PRICE, in box \$6.00; in pocket leatherette case \$6.70.



ECCENTRIC BRAKE WRENCHES

Open End Type—15° Angle Heads

Drop Forged from Chrome Vanadium Steel

The two sizes of Herbrand Eccentric Brake Wrenches carry the four necessary openings to adjust the eccentric cam on Bendix Internal Brakes. They are long, thin and strong and handle this important adjustment easily. Satin nickel, polished heads.

Wrench No.	Openings Milled	Length	Thickness Heads	Weight Per Doz.	List Price Each
261	$\frac{3}{16}$ & $\frac{1}{4}$	9	$\frac{7}{32}$	2 lbs.	\$1.30
262	$\frac{5}{16}$ & $\frac{3}{8}$	9	$\frac{7}{16}$	2 lbs. 12 ozs.	1.30



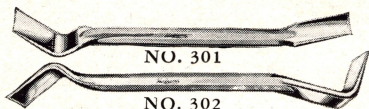
ECCENTRIC BRAKE WRENCHES

Elongated Box Type Openings

Drop Forged from Chrome Vanadium Steel

Designed to fit the slab head on brake eccentrics and are the only wrenches of this type built. Available in six openings sizes to fit Bendix, Lockheed, and most truck and bus brakes. The unique offset makes it possible to hold the eccentric in exact position while the lock nut is being tightened. Satin plate, bright heads.

Wrench No.	Openings Broached	Length	Weight Per Doz.	List Price Each
195	$\frac{3}{16}$ & $\frac{1}{4}$	5	1 lb. 8 ozs.	\$1.20
196	$\frac{5}{16}$ & $\frac{7}{16}$	6	3 lbs.	1.30
197	$\frac{3}{8}$ & $\frac{1}{2}$	6	3 lbs.	1.30



STAR NUT BRAKE TOOLS

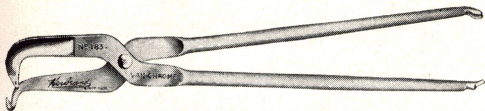
Drop Forged from Chrome Alloy Steel

Clears obstructions such as shock absorbers and frame fittings easily. Thinner and wider contact points and that sensitive touch so necessary for locating and adjusting the cog screw on Bendix Brakes. Satin nickel with polished points. Length 8", Wgt. 4 ½ oz.

NO. 301 for Bendix Brakes on most passenger cars and trucks.

NO. 302 for Bendix Brakes on Hudson and Essex cars.

LIST PRICE, each.....\$.75



"VAN-CHROME" BRAKE SPRING PLIER NO. 183

13" Long for Heavy Duty Service

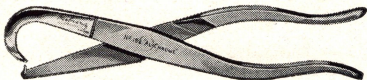
Drop Forged from Chrome Vanadium Steel

Here is a large size Brake Spring Plier with a generous capacity of jaw opening for the quick and easy removal and replacement of brake shoe springs on practically all cars equipped with internal brakes.

The sharp point of the goose neck curve of the upper jaw anchors on the brake lining in a positive way, while the cork screw hook of the lower jaw pulls the spring into position readily. The ends of the handles have different forged notches—one end slips the upright springs into position on the stud, the other end removes them easily. Satin nickel with polished heads.

Length 13", Weight 11 oz.

LIST PRICE, each.....\$3.20



BRAKE SPRING PLIER NO. 182

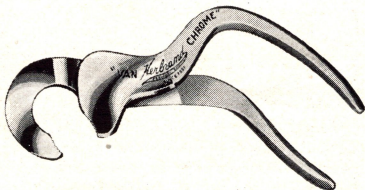
8 1/2" Long

Drop Forged from Chrome Alloy Steel

Works efficiently on smaller springs where long handles would be awkward. Satin nickel finish with heads polished.

Length 8 1/2", Weight 6 oz.

LIST PRICE, each.....\$1.90



STEELDRAULIC BRAKE PLIER NO. 272

Special Curved Handles

Drop Forged from Chrome Alloy Steel

Designed to reach and get a positive hold on the knurled brake adjusting nuts used on various models of Auburn, Hupmobile, Oakland, Nash, Pontiac and other cars equipped with steeldraulic brakes. Finished in satin nickel plate with mirror bright heads.

Length 5 1/2", Weight 5 oz.

LIST PRICE, each.....\$2.10



FORD BRAKE WRENCH NO. 2333

For Models A, AA, B, BB and V-8

Drop Forged from Chrome Vanadium Steel

Extreme lightness and thinness with maximum strength are some of the outstanding features of this wrench. The long, thin handle reaches the adjusting nut easily with plenty of leverage for frozen or rusted brake nuts. The 8-point box type openings slip over the nut in a positive way, gripping it at any angle and permitting either a short or full turn.

Drop forged from the finest Chrome Vanadium Steel, accurately sized, heat treated all over and finished in double satin nickel with polished heads.

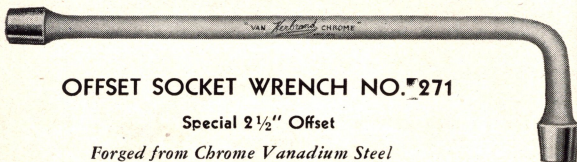
Eight point openings $\frac{7}{16}$ " and $\frac{1}{2}$ ", Length 11", Weight 7 $\frac{1}{2}$ oz.

LIST PRICE, *each*.....\$1.20

NO. 2332, same design as above but forged from carbon steel instead of Chrome Vanadium.

Eight point openings $\frac{7}{16}$ " and $\frac{1}{2}$ ", Length 11", Weight 14 oz.

LIST PRICE, Satin nickel, *each*.....\$.75



OFFSET SOCKET WRENCH NO. 271

Special 2 $\frac{1}{2}$ " Offset

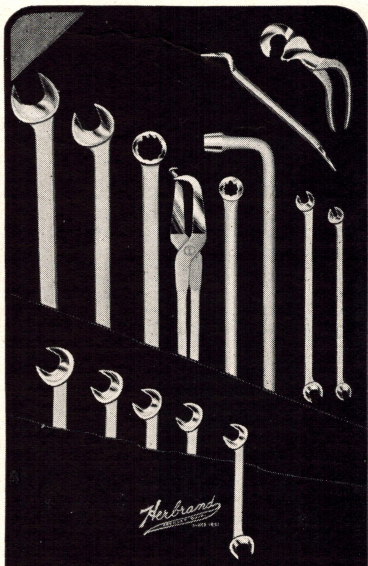
Forged from Chrome Vanadium Steel

When brake adjustments must be made through the drum either inside or outside the wheel this wrench will be found invaluable. It is designed to fit the adjusting nuts on Bendix and Steeldraulic internal brakes for which it is the ideal tool. Also well suited for connecting rod service on Ford V-8. It is not guaranteed against breakage because of the extreme thinness of the head walls.

Forged from Chrome Vanadium Steel and finished in satin nickel plate with heads buffed bright. One end has a 2 $\frac{1}{2}$ " offset set at 90° angle.

Six point openings $\frac{9}{16}$ " and $\frac{5}{16}$ ", Length 11 $\frac{1}{2}$ ", Weight 13 oz.

LIST PRICE, *each*.....\$1.60



BRAKE SET NO. BR-15

"VAN-CHROME" BRAKE SETS

For description of Individual Tools see pages 62 to 66

Not just an ordinary collection of tools but a highly developed unit which constitutes the most complete set with the minimum number of pieces. Each wrench is designed for its particular job, with proper leverage, thinness and angles of heads to clear obstructions, enabling mechanics to adjust brakes quickly, easily and correctly on a profit producing basis. Includes tools for Bendix, Lockheed-Hydraulic, Midland Steeldraulic and others.

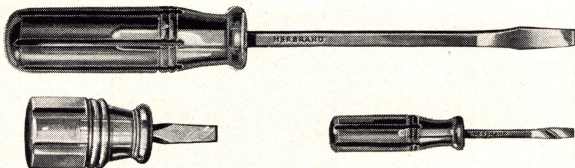
SET NO. BR-15 contains one each of fifteen brake tools, Nos. 183, 241, 243, 251, 261, 262, 271, 272, 281, 282, 283, 284, 285, 301 and 2333 which are illustrated and described on pages 62 to 66.

Weight 8 lbs., 5 oz.

LIST PRICE, *in box* \$25.45; *in leatherette case* \$27.15

SET NO. BR-13, same as above assortment, minus the No. 183 and No. 272 pliers, thirteen tools in all.

LIST PRICE, *in box* \$20.15; *in leatherette case* \$21.85.



PROTECTOGRIIP SCREW DRIVERS

Insulated Handles

Blades Forged from Chrome Tungsten Tool Steel

The transparent amber handles of Protectogrip Screw Drivers are perfect insulators against electricity and will stand eight thousand volts or more. They are just the right size to fit snugly into the palm of the hand and the special deep fluted design prevents slipping even in greasy hands. These handles are individually machined from bars of Pyralin which are carefully cured to provide indestructible qualities.

The blades are cross-forged from Chrome Tungsten Alloy Steel and this special Herbrand forging process not only strengthens the blades but enhances the appearance. The tips are accurately ground to standard gauges, insuring a positive non-slip fit in screw slots. Only square stock is used on Protectogrip Driver blades which permits using a wrench when necessary for extra leverage.

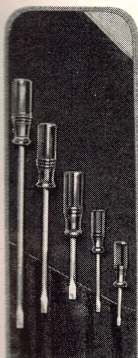
The X-ray illustration shows how the shanks of the blades extend far into the handles to prevent any possibility of turning. The blades are heat treated to give maximum service and resiliency providing screw drivers of unusual strength and utility.

Protectogrip are the toughest, strongest screw drivers ever offered the automotive trade and they will stand surprising abuse and wear. Blades are double plated in satin nickel with polished points.

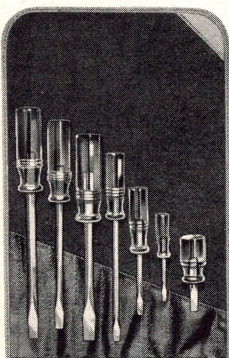
No.	Length of Blade	Size Square Stock	Overall Length	List Price Each
310	2	$\frac{1}{8}$	$4\frac{3}{16}$	\$.50
311	3	$\frac{1}{8}$	$4\frac{3}{16}$	.60
312	3	$\frac{3}{16}$	$6\frac{1}{4}$	.95
313	6	$\frac{3}{16}$	$9\frac{1}{4}$	1.15
314	9	$\frac{3}{16}$	$12\frac{1}{4}$	1.20
315	$1\frac{1}{4}$	$\frac{1}{4}$	$3\frac{1}{2}$	1.10
316	6	$\frac{1}{4}$	10	1.65
317	10	$\frac{1}{4}$	14	1.80
318	$1\frac{1}{4}$	$\frac{5}{16}$	$3\frac{1}{2}$	1.20
319	7	$\frac{5}{16}$	11	1.95
320	12	$\frac{5}{16}$	$16\frac{1}{4}$	2.10
321	6	$\frac{3}{8}$	$10\frac{1}{4}$	2.30
322	12	$\frac{3}{8}$	$18\frac{1}{2}$	2.90
323	16	$\frac{3}{8}$	$22\frac{1}{2}$	3.20

Display Board No. SD-14 carries 3 each of the 14 screw drivers listed in above table, total of 42 drivers. Size of board 15" by 28", Weight 25 lbs.

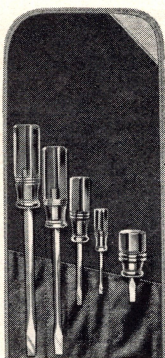
LIST PRICE, complete, board gratis.....\$67.80



SET NO. SD-5



SET NO. SD-7



SET NO. SD-6

PROTECTOGRIP SCREW DRIVER SETS

To conserve the mechanics time and keep readily available the popular sizes of Screw Drivers used most frequently, Herbrand provides carefully selected assortments of the most sturdy and highest quality screw drivers in the industry.

SET NO. SD-5, for electrical, ignition and radio service carries five slim, narrow shank drivers which are forged from $\frac{1}{8}$ " and $\frac{3}{16}$ " square stock, with variation in blade lengths from 2" to 9" and overall length from $4\frac{3}{16}$ " to $12\frac{1}{4}$ ". The Protectogrip Screw Drivers in this set are Numbers 310, 311, 312, 313, 314.

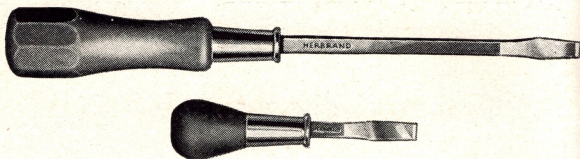
LIST PRICE, in pocket leatherette case.....\$4.90

SET NO. SD-6, carries a well balanced assortment of five Protectogrip Screw Drivers which are in daily demand. Contains the number 310 and 312 sizes for electrical and ignition work; the number 315, short stubby type for general adjusting and carburetor work; numbers 316 and 319 for general utility service.

LIST PRICE, in pocket leatherette roll.....\$6.65

SET NO. SD-7, a general service assortment containing a wide range of seven genuine Protectogrip Screw Drivers that fill an all purpose need. It includes numbers 310, 312 and 313 for electrical, ignition and delicate adjusting work; the short, stubby driver number 315; numbers 316 and 319 for general purposes and the heavy duty screw driver number 321.

LIST PRICE, in pocket leatherette roll.....\$10.20



WOOD HANDLED SCREW DRIVERS

Smoothly Turned Handles

Blades Forged from Chrome Tungsten Tool Steel

The long, slender taper blades of Herbrand screw drivers have accurately ground points for the perfect gripping of screw slots. The handles are turned from clear, selected birch with white shellac finish. These screw drivers are the best balanced and strongest wood handled screw drivers on the market. The blades are cross-forged from Chrome Tungsten Alloy Tool Steel and are heat treated to provide utmost strength and resiliency. The square stock of Chrome Tungsten Tool Steel is firmly imbedded in the handle and securely bound in with a heavy steel ferrule to prevent turning or working loose.

These sturdy drivers are practically unbreakable and will stand up under the most severe wear and usage. The Herbrand distinctive process of cross-forging contributes to their extra strength and general appearance.

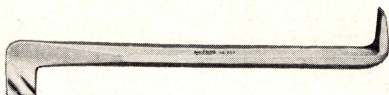
Available in the popular range of sizes shown in the table below. The blades are double plated in satin nickel and the points are brightly polished.

Herbrand Wood Handled Screw Drivers can be obtained on a compact, sales-making display board which is described below.

No.	Length of Blade	Size Square Stock	Overall Length	List Price Each
330	3	$\frac{3}{16}$	$7\frac{1}{4}$	\$.55
331	6	$\frac{3}{16}$	$10\frac{1}{4}$	.70
332	9	$\frac{3}{16}$	$13\frac{1}{4}$	.80
333	$1\frac{1}{4}$	$\frac{1}{4}$	$3\frac{3}{4}$	.55
334	6	$\frac{1}{4}$	$11\frac{1}{4}$	.90
335	10	$\frac{1}{4}$	$15\frac{1}{4}$	1.05
336	7	$\frac{5}{16}$	$12\frac{1}{2}$	1.15
337	12	$\frac{5}{16}$	$17\frac{1}{2}$	1.30
338	6	$\frac{3}{8}$	$12\frac{1}{4}$	1.20
339	12	$\frac{3}{8}$	$18\frac{1}{4}$	1.35
340	16	$\frac{3}{8}$	$22\frac{1}{4}$	1.40

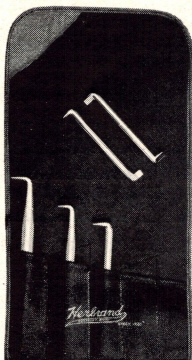
DISPLAY BOARD NO. SD-11 carries 3 each of the 11 screw drivers listed in the above table, total of 33 drivers. Size of board 15" by 28", Weight 23 lbs.

LIST PRICE, complete, board gratis.....\$32.85



"VAN-CHROME" OFFSET SCREW DRIVERS

Forged from Chrome Tungsten Steel



SET NO. 350

The bits of the "Van-Chrome" double end offset drivers are set at right angles to each other with the exception of No. 352 which has the blades forged at a 45° angle instead of 90° and is an ideal companion for No. 351. The large size No. 355 is especially adapted to drag link adjustments. These screw drivers come in a range of five popular sizes and are sold individually or in a complete set.

Forged from Chrome Tungsten Tool Steel with octagon handles, heat treated throughout, and finished in satin nickel plate with brightly buffed blades.

No.	Size Stock	Length	Weight per Doz.		List Price Each
			Lbs.	Ozs.	
351	$\frac{1}{4}$	$4\frac{1}{4}$		12	\$.75
352-45°	$\frac{1}{4}$	$4\frac{1}{4}$	2	12	.75
353	$\frac{5}{16}$	$5\frac{1}{2}$	2	4	.80
354	$\frac{3}{8}$	$6\frac{1}{2}$	3		.85
355	$\frac{1}{2}$	$7\frac{1}{2}$	5	4	1.00

SET NO. 350, comprises one each of the above five sizes, in attractive leatherette, flannel lined tool roll. Weight 1 lb.

LIST PRICE, complete.....\$4.40

"VAN-CHROME" CHISELS

Forged from Chrome Tungsten Tool Steel, Nickel Plated

The chief requisite of chisels is that they resist the severe demands made upon them and defy breakage. "Van-Chrome" chisels are individually hammer forged from strong and tough Chrome Tungsten Alloy Steel made to Herbrand's special formula. Individually heat treated and tempered in perfectly timed electrically controlled furnaces. The cutting edge is beveled at the correct angle to remain sharp under extreme abuse. They are so finely tempered that they may be redressed with a file yet stand up under the hardest usage.

Herbrand "Van-Chrome" Chisels are designed for perfect balance and have octagon shaped handles for better gripping. Each "Van-Chrome" chisel is branded with the Herbrand mark of distinction which is your guarantee of quality. Nickel finish and rust-proof.



FLAT CHISELS

No.	Size Stock	Width of Bit	Length	List Price Each
400	$\frac{5}{16}$	$\frac{5}{16}$	5	\$.50
401	$\frac{5}{16}$	$\frac{3}{8}$	5	.50
402	$\frac{3}{8}$	$\frac{1}{2}$	6	.55
403	$\frac{1}{2}$	$\frac{5}{8}$	6	.65
404	$\frac{5}{8}$	$\frac{3}{4}$	7	.85
405	$\frac{3}{4}$	$\frac{7}{8}$	8	1.25
406	$\frac{7}{8}$	1	9	1.60



CAPE CHISELS

410	$\frac{5}{16}$	$\frac{7}{32}$	5	\$.50
411	$\frac{3}{8}$	$\frac{5}{16}$	6	.55
412	$\frac{1}{2}$	$\frac{3}{8}$	6	.65



GOUGE CHISELS

420	$\frac{5}{16}$	$\frac{7}{32}$	5	\$.50
421	$\frac{3}{8}$	$\frac{1}{4}$	6	.55

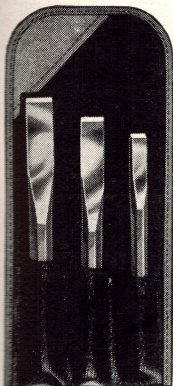


DIAMOND POINT CHISELS

430	$\frac{5}{16}$	$\frac{1}{8}$	5	\$.50
431	$\frac{3}{8}$	$\frac{5}{64}$	6	.55

"VAN-CHROME" CHISEL SETS

Carrying the Strongest Chisels Made



Chisel Set C-3

NO. C-3 "Van-Chrome" Chisel Set.
1 each Nos. 402, 403 and 404 in flannel
lined leatherette roll.

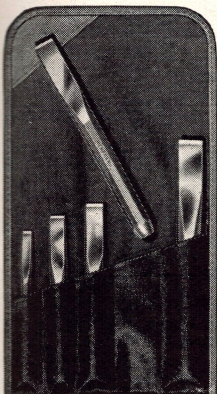
LIST PRICE.....\$2.25

NO. C-5 "Van-Chrome" Chisel Set.
1 each Nos. 402, 403, 404, 405 and
406 in roll.

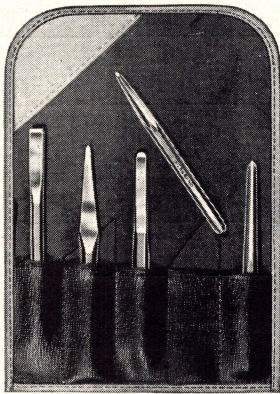
LIST PRICE.....\$5.20

NO. C-6 "Van-Chrome" Assorted
Chisel and Punch Set. 1 each of Chisel
Nos. 401, 410, 420, 430 and No. 471
Center Punch in roll.

LIST PRICE.....\$2.85



Chisel Set C-5



Chisel Set C-6

"VAN-CHROME" PUNCHES

Forged from Chrome Alloy Steel, Nickel Plated

Constructed for strenuous driving, piercing and marking purposes, they will retain their points permanently. Herbrand "Van-Chrome" Punches are carefully forged from the toughest Chrome Alloy Steel and scientifically heat treated for the utmost possible endurance. Nickel plated double in satin with points polished to a high lustre which makes them rust-resisting.



PIN PUNCHES

No.	Size Stock	Diameter of Point	Length	List Price Each
440	$\frac{5}{16}$	$\frac{1}{8}$	$4\frac{1}{2}$	\$.40
441	$\frac{5}{16}$	$\frac{5}{32}$	$4\frac{1}{2}$	.40
442	$\frac{5}{16}$	$\frac{3}{32}$	$4\frac{1}{2}$	.40
443	$\frac{5}{16}$	$\frac{5}{32}$	6	.50
444	$\frac{3}{8}$	$\frac{3}{16}$	$6\frac{1}{2}$	.55
445	$\frac{3}{8}$	$\frac{7}{32}$	$6\frac{7}{8}$	.60
446	$\frac{3}{8}$	$\frac{1}{4}$	7	.65
447	$\frac{1}{2}$	$\frac{5}{16}$	$7\frac{1}{2}$	.75



SOLID TAPER PUNCHES

450	$\frac{9}{16}$	$\frac{1}{16}$	$4\frac{1}{2}$	\$.40
451	$\frac{3}{8}$	$\frac{3}{16}$	5	.55
452	$\frac{1}{2}$	$\frac{1}{4}$	6	.75
453	$\frac{5}{8}$	$\frac{5}{16}$	7	.95



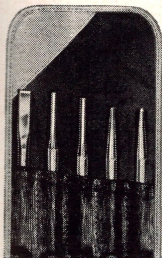
LONG TAPER PUNCHES

460	$\frac{3}{8}$	$\frac{1}{8}$	8	\$.65
461	$\frac{1}{2}$	$\frac{1}{4}$	9	.90
462	$\frac{5}{8}$	$\frac{5}{32}$	11	1.20



CENTER PUNCHES

470	$\frac{5}{16}$	$\frac{1}{8}$	$4\frac{1}{2}$	\$.40
471	$\frac{3}{8}$	$\frac{7}{32}$	5	.55

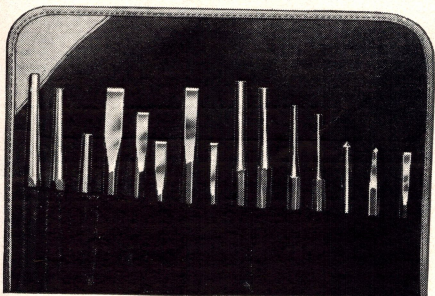


"VAN-CHROME" PUNCH AND CHISEL SETS

Carrying the strongest cutting and piercing tools

NO. C-10 Punch Set, Vest Pocket Size. An assortment of handy small Punches and Chisel especially useful for electrical work. Comprises 1 each of assorted Punches Nos. 440, 441, 450 and 470 and Chisel No. 400.

LIST PRICE.....\$2.40



NO. C-15 Super Punch and Chisel Set. A well balanced assortment of the fifteen most popular Punches and Cutting Tools which equip the mechanic for any job.

LIST PRICE.....\$9.55



"VAN-CHROME" JIMMY BARS

Forged from Chrome Alloy Steel, Nickel Plated

Invaluable for prying, alignment work and many other purposes. One end has a long, sharp pointed taper, the other end has a sharp curved leverage blade. They can't break.

No.	Size Stock	Diameter of Point	Length	List Price Each
480	1/2	1/8	12	\$1.20
481	5/8	1/4	16	1.90
482	3/4	5/32	20	2.60



SPECIAL KNEE-ACTION SERVICE TOOLS KNUCKLE SUPPORT YOKE WRENCH NO. 2410

For Buick and Oldsmobile, 1934

Drop Forged from Chrome Vanadium Steel

This special Knee-Action Wrench has the necessary angles and bends to service the upper and lower yoke nuts on 1934 Buick and Oldsmobile. The $1\frac{1}{4}$ " 12-point opening in the curved end takes the upper support nut which is set between the shock absorber on the spindle; the $1\frac{7}{16}$ " 12-point opening reaches the nut on the lower support yoke. This special wrench is absolutely necessary to reach these nuts which are inaccessible with ordinary wrenches. Satin nickel finish with polished heads.

Length 21", Weight 3 lbs., 6 oz.

LIST PRICE, each.....\$8.00



BRAKE SHOE CENTRALIZING WRENCH NO. 2411

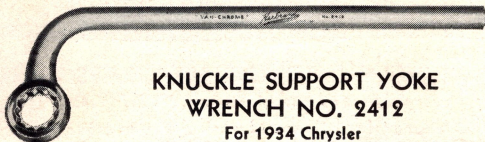
For Pontiac and Oldsmobile, 1934

Drop Forged from Chrome Vanadium Steel

This wrench is absolutely essential for centralizing the brake shoes on the new 1934 knee-action Pontiac and Oldsmobile. The $\frac{15}{16}$ " open end is necessary for the front brakes and has the proper thickness of heel for positive fit; the $\frac{15}{16}$ " 12-point box end opening is set at the correct angle for use on the rear brakes. Double plated in satin nickel with heads polished bright.

Length $15\frac{1}{2}$ ", Weight 1 lb., 5 oz.

LIST PRICE, each.....\$4.65



KNUCKLE SUPPORT YOKE WRENCH NO. 2412

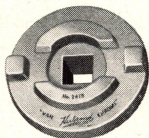
For 1934 Chrysler

Drop Forged from Chrome Vanadium Steel

The knuckle support yoke nut on 1934 Chrysler is impossible to reach without this specially designed Knee-Action Wrench. It carries a $1\frac{1}{4}$ " 12-point box opening forged at the proper angle for clearance, with a 16" handle for leverage. Double plated in Herbrand satin nickel with heads brightly polished.

Length $16\frac{1}{2}$ ", Weight 2 lbs., 8 oz.

LIST PRICE, each.....\$4.00



SPECIAL KNEE-ACTION SERVICE TOOLS FRONT SPRING CENTERING NUT SPANNER NO. 2413

For 1934 Pontiac

Drop Forged from Chrome Vanadium Steel

Equalizing the front spring suspension on the 1934 Pontiac knee-action requires this special Spanner. It is essential for adjusting, removing or replacing the front spring centering nut. It is equipped with the $\frac{1}{2}$ " square drive service connection for the use of any standard handle unit and is conveniently used with the Herbrand S-10 Ratchet. Finished in satin nickel plate.

Diameter $2\frac{1}{2}$ ", Weight 10 oz.

LIST PRICE, each.....\$2.65



RETAINER CAP SPANNER NO. 2414

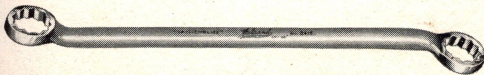
For 1934 Pontiac

Drop Forged from Chrome Vanadium Steel

The front spring housing retainer cap on Pontiac 1934 knee-action must be removed to reach the inner centering nut for front spring suspension adjustment. No. 2414 is especially designed for this purpose and avoids damage to threads. Double plated in satin nickel.

Length, $17\frac{1}{4}$ ", Weight 2 lbs.

LIST PRICE, each.....\$4.65



STEERING ARM NUT WRENCH NO. 2415

For 1934 Chevrolet and Pontiac

Drop Forged from Chrome Vanadium Steel

The steering arm nut on these new knee-action cars is set so close to the frame that it is almost impossible to reach them. This double end box type wrench with $1\frac{1}{4}$ ", 12-point openings has the heads forged at special angles to easily fit over and adjust these nuts. Finished in satin nickel with polished heads.

Length 18", Weight 2 lbs.

LIST PRICE, each.....\$4.65



SPECIAL KNEE-ACTION SERVICE TOOLS STEERING GEAR ECCENTRIC WRENCH NO. 2416

For 1934 Pontiac

Drop Forged from Chrome Vanadium Steel

The 1934 Pontiac requires this special short, thin wrench for adjusting the knee-action steering gear eccentric. The $\frac{15}{16}$ " , 12-point box opening is only $\frac{3}{16}$ " thick to permit a full firm grip on the adjusting nut and the handle is $5\frac{1}{2}$ " long for perfect clearance. Not guaranteed due to extreme head thinness. Satin nickeled.

Length $5\frac{1}{2}$ " , Weight 5 ozs.

LIST PRICE, each.....\$2.25



STEERING GEAR ECCENTRIC WRENCH NO. 2417

For 1934 Buick

Drop Forged from Chrome Vanadium Steel

The extra thin $\frac{3}{16}$ " head with $1\frac{1}{8}$ " , 12-point box opening fits perfectly over the 1934 Buick steering gear adjusting nut. The $8\frac{3}{4}$ " handle provides the necessary leverage and is sufficiently short to clear all obstructions. Double satin nickel with head polished. Not guaranteed due to extreme thinness of head.

Length $8\frac{3}{4}$ " , Weight 8 ozs.

LIST PRICE, each.....\$2.45



ECCENTRIC LOCK NUT WRENCH NO. 2418

For 1934 Buick

Drop Forged from Chrome Vanadium Steel

This special wrench is required for knee-action service on 1934 Buick steering gear eccentric lock nut and the roller shaft adjusting locknut. It carries a combination of $\frac{13}{16}$ " and $\frac{7}{8}$ " , 12-point box openings. Special offsets are angled for perfect accessibility and firm gripping of the nuts. Plated in double satin nickel with heads buffed bright.

Length $8\frac{3}{4}$ " , Weight $9\frac{1}{2}$ ozs.

LIST PRICE, each.....\$2.65

A NEW HERBRAND CREATION FOR PRACTICALLY ALL CARS



"VAN-CHROME" SPECIAL MANIFOLD WRENCH NO. 2335

Drop Forged from Chrome Vanadium Steel

The latest SENSATION in the tool industry. A new tool created by Herbrand to save time, labor and money in servicing late model cars. A versatile tool with such a broad range of usefulness that readily marks it as the MOST IMPORTANT tool of the present day.

Designed with unique offsets, angles, twists and bends to clear obstructions where ordinary wrenches are useless, and to easily function in tight, close-quarter places for which no wrenches have been available.

It carries double 12-point $\frac{9}{16}$ " openings. One end is offset $2\frac{3}{16}$ " and is angled at 23° which is essential for clearance on many exhaust manifolds. The heel of the offset is thinned down for greatest accessibility. This special offset head fits the lower, center and lower rear exhaust manifold nuts on V-8. It clears the steering column and also gives clearance on the cable conduit when working on the intake V-8 manifold nuts.

The $\frac{9}{16}$ ", 12-point opening in the opposite end is angled at 50° for clearance on the cylinder block, and the handle has a 10° angle offset to clear the steering column when wrench is used on the exhaust manifold rear top V-8 nuts.

The carefully designed offset heads have special clearances, the precision angles of the handle and the angles of the deep offset heads make this new wrench especially adaptable for efficient work on the exhaust manifold nuts on many of the popular late model cars including Ford, Chevrolet, Dodge, Graham, Plymouth, Pontiac, Terraplane, Studebaker and others.

The handle is paneled for firm grip. Finished in satin nickel.

Twelve point openings $\frac{9}{16}$ " and $\frac{9}{16}$ ". Length $8\frac{1}{2}$ ", Weight 6 oz.

LIST PRICE, *each*.....\$1.60



HEADLIGHT AND HORN NUT ADJUSTING WRENCH NO. 2344

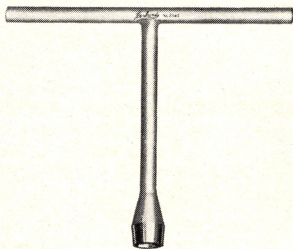
For Ford V-8, Hudson and Terraplane

Drop Forged from Chrome Vanadium Steel

A new slotted, 12-point, box type wrench which is a big time saver for every garage. The slotted heads permit adjusting or removing the headlight and horn nuts without disconnecting the wiring. The $\frac{15}{16}$ " end fits the headlight nuts on Ford V-8 and 1933-1934 Hudson and Terraplane models. The $\frac{3}{4}$ " end fits the horn nuts on Ford V-8. This wrench is drop forged from Chrome Vanadium Steel, with extra rigid jaws to prevent springing off the nut when pressure is applied. Finished in satin nickel.

Length 11", Weight 13 oz.

LIST PRICE, *each*\$1.80



FORD CONNECTING ROD WRENCH NO. 2343

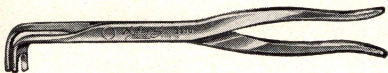
For Ford V-8 Models

Forged from Chrome Vanadium Steel

A long slender wrench of T handle design essential for connecting rod work on V-8 Fords. It has a $\frac{9}{16}$ ", 12-point socket type opening forged with a very thin wall and is $9\frac{1}{4}$ " long to provide the necessary reach. The T cross bar is 10" long for a full grip and powerful leverage. Finished in satin nickel plate.

Length $9\frac{1}{4}$ ", Weight 1 lb., 6 oz.

LIST PRICE, *each*\$1.30



FORD RADIUS ROD BOLT HOLDER NO. 2330

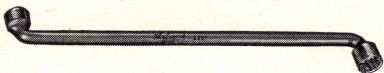
For Ford Models A and AA

Drop Forged and Heat Treated

Designed to easily assemble the radius rod bolts through the $1\frac{11}{16}$ " diameter opening at the bottom of the flywheel housing. This operation is difficult to perform with the hands, due to the limited space provided. It speeds up work and eliminates the hazard of dropping the front radius rod bolts into the flywheel housing. When this happens, as it frequently does, four to five hours of time and labor are required to extricate the bolt without the use of this tool. Double plated in satin nickel finish, with polished heads.

Length 10", Weight 8 oz.

LIST PRICE, *each*.....\$2.25



"VAN-CHROME" MAIN BEARING WRENCH NO. 2331

For Ford Models A, AA, B, BB and V-8

Forged from Chrome Vanadium Steel

The head of this wrench is set at the correct angle to reach and turn the $\frac{3}{4}$ " hex nut on the main bearing bolt of the Ford Cars including models up to 1934 V-8. It carries a $\frac{9}{16}$ ", 8-point opening in one end and a $\frac{3}{4}$ ", 12-point opening in the other. The "Van-Chrome" Main Bearing Wrench has the necessary 16" length essential to service all Ford main bearing bolts. Satin nickel finish with polished heads. Efficiently used with No. 2336.

Length 16", Weight 1 lb., 3 oz.

LIST PRICE, *each*.....\$2.00



"VAN-CHROME" FORD BRAKE ADJUSTING WRENCH NO. 2333

For Ford Models A, AA, B, BB and V-8

Drop Forged from Chrome Vanadium Steel

The long, thin handle of the Ford Brake Adjusting Wrench reaches the adjusting nut easily with plenty of leverage for frozen or rusted brake nuts. The box type heads are broached with 8-point openings of $\frac{7}{16}$ " and $\frac{1}{2}$ " and the thin side walls and slender handles make this wrench extremely efficient and easy to use. Drop forged from Chrome Vanadium Steel and heat treated throughout for strength and durability. Satin nickel with mirror polished heads. The heads are offset at an angle which is most efficient for easy handling.

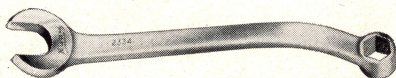
Length 11", Weight $7\frac{1}{2}$ oz.

LIST PRICE, each.....\$1.20

NO. 2332 Same design as No. 2333 illustrated above. The handle and heads are somewhat wider and thicker because it is drop forged from Carbon steel instead of Chrome Vanadium, which also increases the weight by $6\frac{1}{2}$ ounces. Satin nickel.

Length 11", Weight 14 oz.

LIST PRICE, each.....\$.75



SPARK PLUG AND CYLINDER HEAD WRENCH NOS. 2334 and 2334-A

For Ford Models T, A, AA, B, BB and V-8

Drop Forged and Heat Treated

Made in two sizes—No. 2334 for Model T Ford; No. 2334A for all later models—this Herbrand Cylinder Head and Spark Plug Wrench is recognized as the dependable Ford tool. It is the highest quality and is drop forged, accurately sized and heat treated throughout. Satin nickel finish.

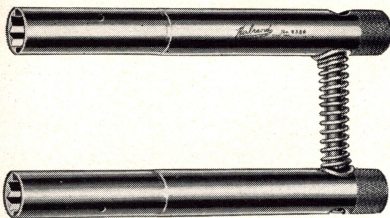
Length 10", Weight 12 oz.

NO. 2334 (Ford No. B-17017) openings, box end $\frac{5}{8}$ "; open end $\frac{15}{16}$ ".

LIST PRICE, each.....\$.50

NO. 2334A, openings, box end $1\frac{1}{16}$ "; open end $1\frac{1}{8}$ ".

LIST PRICE, each......55



MAIN BEARING BOLT HOLDER NO. 2336

For V-8 Models

Forged from Chrome Alloy Steel

On Ford V-8 models the main bearing bolts are reversed and set in deep countersunk holes. The 8-point $\frac{9}{16}$ " openings in this Herbrand Special Wrench are hot forged to fit the square bolt heads regardless of position, because there is sufficient flexibility in the spring tension construction feature to hold both tool and bolts even though working in an upside down position. The tool and bolts remain in place, instead of dropping out after the nuts and bearing cap have been removed. This tool is essential to hold the main bearing bolts from turning while adjustments are made and the nuts being tightened. Bright natural steel finish smoothly ground. Head is knurled for firm grip. Used efficiently with Wrench No. 2331.

Length $8\frac{1}{2}$ ", Weight 2 lbs., 14 ozs.

LIST PRICE, *each*.....\$3.50



SHOCK ABSORBER WRENCH NO. 2341

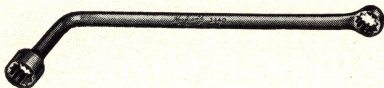
For Ford Cars, All Models

Drop Forged from Chrome Vanadium Steel

This wrench is specially designed to fit the oil filler plugs on all Ford shock absorbers. The filler plugs on rear shock absorbers are set so close to the fender that it is difficult for an ordinary wrench to remove them. Satin nickel, polished head.

Length 5", Openings $\frac{7}{16}$ ", Weight $1\frac{1}{2}$ oz.

LIST PRICE, *each*.....\$.80



"VAN-CHROME" HEAD AND MANIFOLD WRENCH NO. 2340

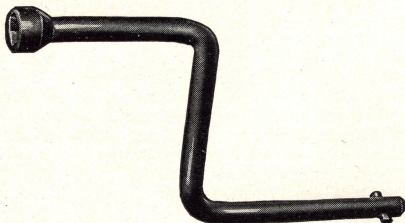
For Ford Models A, AA, B and BB

Drop Forged from Chrome Vanadium Steel

With this wrench it is unnecessary to remove the carburetor adjusting rod to reach the exhaust manifold nuts. It has a $1\frac{1}{16}$ " 12-point socket opening on one end, and $1\frac{1}{16}$ " 12-point box opening on the 4" offset end to clear the water outlet pipe. Will handle all head bolts and manifold nuts. Satin nickel finish.

Length 15", Weight 15 oz.

LIST PRICE, *each*. \$2.20



STARTING CRANK AND WHEEL NUT NOS. 2337 and 2338A

For Ford Models A and AA

Forged and Heat Treated

One end is a crank handle, the other end a rim nut wrench. It is positive in action and will not slip. One tool to carry instead of two; always handy and convenient, and necessary equipment for every mechanic and motorist. Forged from a select grade of high carbon steel, and heat treated. Finished in black enamel.

Length $14\frac{7}{8}$ ", Weight 2 lbs., 2 oz.

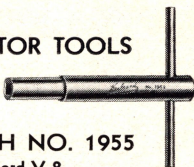
NO. 2337, Socket opening $1\frac{3}{16}$ " for Ford A. (Ford No. A17036B)

LIST PRICE, *each*. \$.67

NO. 2338A, Socket opening $1\frac{1}{8}$ " for Ford AA. (Ford No. AA17036B)

LIST PRICE, *each*. \$.70

SPECIAL HERBRAND CARBURETOR TOOLS FOR FORD AND CHEVROLET



CARBURETOR JET WRENCH NO. 1955

Oblong Opening For Late Ford V-8

Hot Forged and Heat Treated

The key to carburetor troubles on the late Ford V-8. A new and necessary tool with an oblong hot forged socket opening to adjust the carburetor jets on late model V-8's. Will work on any car equipped with Stromberg dual-carburetion. Every mechanic needs this tool to service the recent change of these fuel jets. Designed with the necessary thinness and length for speed and efficiency. Smoothly ground with bright natural finish.

Length 3", Handle 2 1/2", Weight 2 oz.

LIST PRICE, each.....\$.65



CARBURETOR BOWL NUT WRENCH NO. 7731 A

For Chevrolet

Drop Forged from Chrome Vanadium Steel

Specially bent and sized to easily remove the bowls of Chevrolet 6 carburetors up to 1932 models. Broached with a 3/4", 12-point opening on one end to firmly anchor on the bowl nut at any desired working angle, the opposite end carries a 7/8" 12-point opening for general use. The offset handle clears the choke lever and other obstructions and conveniently engages the thin nut that holds the bowl in place without difficulty. Finished in satin nickel with polished heads. Length 10", Weight 12 oz.

LIST PRICE, each.....\$1.65



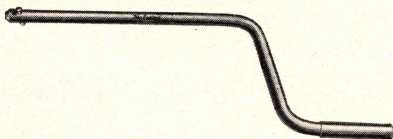
SPECIAL CARBURETOR WRENCH NO. 1950

For Late Model Chevrolet

Drop Forged from Chrome Vanadium Steel

With this special wrench it is unnecessary to remove the air and dust filter when working on the feed line. The 9/16" open end fits the connection which is set very close to the carburetor, also the cap screws that hold the carburetor to the motor. The 1/2", 12-point box end fits the connection that screws into the carburetor. It is a great time and labor saving tool that no mechanic can afford to be without and the popular openings which it carries readily adapt it to a wide range of general service. Satin nicked with heads brightly polished. Length 6". Weight 3 oz.

LIST PRICE, each.....\$1.10



CHEVROLET STARTING CRANK NO. 1930R

(Chevrolet No. 355441)

For Models 1929 and 1930 Passenger Cars

Herbrand cranks are forged, heat treated and designed to clear obstructions. Fitted with revolving grip handle. Finished in black enamel. Length $22\frac{3}{4}$ ", Weight 3 lbs., 4 oz.

LIST PRICE, *each*.....\$.60

CHEVROLET STARTING CRANK NO. 1931R

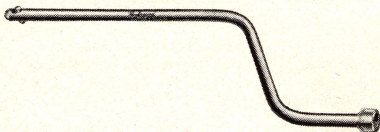
(Chevrolet No. 352768)

For Models 1923 to 1928 and 1933 Passenger and Truck

Same design as No. 1930R, illustrated above, with revolving grip handle but of a different length to fit the models as listed.

Length $19\frac{1}{4}$ ", Weight 3 lbs. Baked black enamel finish.

LIST PRICE, *each*.....\$.55



CRANK AND WHEEL NUT WRENCH NO. 1931

For Chevrolet Models 1931 and 1932

One end has the starting crank, the other a $\frac{3}{4}$ " opening rim wrench. Finished in black enamel. Length $14\frac{1}{2}$ ", Weight 2 lbs., 6 oz.

LIST PRICE, *each*.....\$.67

CRANK AND WHEEL NUT WRENCH NO. 1933

(Chevrolet No. 370853)

For 1933 Model

Same as No. 1931 except length from lug to bend is 11" instead of 7". Black enamel. Length $18\frac{1}{2}$ ", Weight 2 lbs., 10 oz.

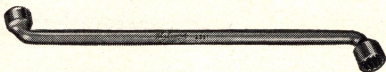
LIST PRICE, *each*.....\$.70

CRANK AND WHEEL NUT WRENCH NO. 1934

For 1934 Chevrolet

Same as 1933 but extra long to clear new type radiators. Black enamel. Length $22\frac{1}{2}$ ", Weight 3 lbs.

LIST PRICE, *each*.....\$.70



"VAN-CHROME" CHEVROLET MAIN BEARING WRENCH NOS. 1937 and 1938

For All Models

Forged from Chrome Vanadium Steel

No. 1937 is designed for more efficient main bearing work on Models 1929 to early 1933 inclusive, and also for cylinder head nuts on these models. The heads are properly offset at just the correct angle necessary for easy operation. They have 12-point $\frac{5}{8}$ " and $\frac{3}{4}$ " socket type openings with extra thin side walls. Finished in satin nickel with polished heads.

Length 16", Weight 1 lb.

NO. 1937, LIST PRICE, *each*.....\$2.00

No. 1938 is designed with 6-point openings $\frac{11}{16}$ " and $\frac{23}{32}$ " which are the necessary sizes for late 1933 and 1934 Models. Both 1937 and 1938 Wrenches are necessary to efficiently service all Chevrolet models.

Length 16", Weight 1 lb.

NO. 1938, LIST PRICE, *each*.....\$2.00



"VAN-CHROME" STARTER AND MANIFOLD WRENCH NO. 1936

For Buick, Chevrolet, Pontiac, Terraplane

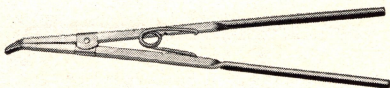
Drop Forged from Chrome Vanadium Steel

Here is a real time-saving tool that replaces many special, costly wrenches. No. 1936 combines 12-point openings of $\frac{5}{8}$ " and $\frac{9}{16}$ ". The $\frac{5}{8}$ " opening fits Buick, Chevrolet, Pontiac Six, and Pontiac Eight starter, also Buick manifold. The $\frac{9}{16}$ " opening fits Buick heat trap and carburetor nuts, Chevrolet manifold, Terraplane starter and Pontiac manifold.

The unique design and thin heads permit reaching around corners and interfering parts. Satin nickel finish, polished heads.

Length $9\frac{3}{8}$ ", Weight 7 oz.

LIST PRICE, *each*.....\$1.35



LONG NOSE ALLIGATOR PLIERS NOS. 184 and 185

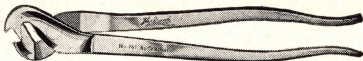
The long, thin nose provides a long, lean reach into the most inaccessible places. Useful for handling valve pins and horseshoe washers, cotter and clevis pins, steel balls, and making wire connections. They have innumerable other uses, such as holding small screws and elusive objects of any kind. Handy for retrieving objects that may have accidentally dropped into the chassis, crankcase or other "hard to reach" places.

Available in two styles: No. 184 with straight nose, No. 185 with bent nose as illustrated. Bright natural finish.

Length 9 1/2", Weight 2 3/4 oz.

NO. 184, Straight nose. LIST PRICE, each.....\$.60

NO. 185, Bent nose. LIST PRICE, each..... .65



QUICK-LINK CHAIN REPAIR PLIER NO. 161

Improved Design

Drop Forged from Chrome Alloy Steel

Just what the service man has been waiting for. A tire chain repair plier of improved design that does the job quicker, easier and better. Satin nickel finish, polished heads.

Length 11", Weight 14 oz.

LIST PRICE, each.....\$2.20



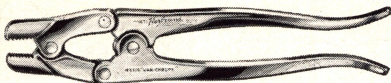
CHAIN REPAIR PLIER NO. 160

Drop Forged from Tool Steel

A good chain plier at low cost. Length 10 1/4", Weight 16 oz.

NO. 160-B, Black enamel. LIST PRICE, each.....\$.75

NO. 160-S, Satin nickel. LIST PRICE, each..... .85



"VAN-CHROME" MULTIDUTY PLIER NO. 178

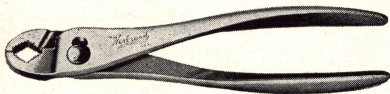
Compound Action

Drop Forged from Chrome Vanadium Steel

The positive biting grip of the 10 to 1 power Multiduty gets pipe fittings and rods, tough and battered nuts, whether square, hex or rounded. Corroded and rusted nuts come easy with this amazing tool which replaces many wrenches and several pairs of pliers. Polished nickel finish.

Range $\frac{3}{16}$ " to $\frac{3}{4}$ ", fitting all popular S.A.E. nuts, Lengths 9", Weight 12 oz.

LIST PRICE, each.....\$2.60



GENERAL SERVICE PLIER NO. 169

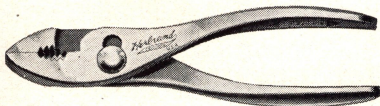
For Square or Hex Nuts

Drop Forged from Tool Steel

Milled with a hex opening, it fits the entire range of nuts from $\frac{3}{8}$ " to $\frac{7}{8}$ ". The serrated teeth take a firm non-slip hold, and the 8" handles provide ample leverage. The slip joint permits quick and easy adjustment to fit any square or hex nut within its range. The short, thin, rounded nose reaches and turns nuts in inaccessible quarters. Heat treated throughout to insure long life. Length 8", Weight 10 oz.

NO. 169-S, Satin nickel plate. LIST PRICE, each.....\$.90

NO. 169-N, Full polished nickel. LIST PRICE, each..... 1.10



COMBINATION SLIP JOINT PLIER NO. 151

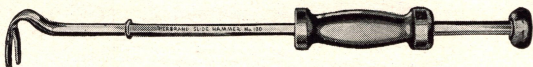
Drop Forged and Heat Treated Throughout

Built to sell at a moderate price, this general utility plier retains the well known Herbrand quality. The accurately milled sharp teeth take a biting hold and the short rounded nose is ideal for close gripping. The slip joint feature gives it a wide variety of uses. Individually hardened and tempered.

Length 6", Weight 8 oz.

NO. 151-B, Black enamel. LIST PRICE, each.....\$.35

NO. 151-S, Satin nickel. LIST PRICE, each40



SLIDE HAMMER NO. 180

The Pulling Tool of Many Uses

Drop Forged and Heat Treated

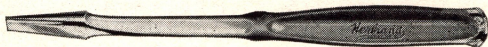
Frozen axle shafts, stuck valves, gears, bearings, bolts, clevis pins and a multitude of other tough jobs—none can resist the powerful pull of the Slide Hammer. The octagon shaped slide bar permits the grip hammer to slide freely, delivering the full force of its heavy blow against the stop. The drop forged jaw is detachable.

A mechanic's tool designed by a master mechanic, to meet requirements in the modern garage, especially for those time and labor consuming jobs for which no efficient tools are now available. Tried and tested under rigorous shop conditions, it has won instant favor with mechanics, garage owners and fleet operators. It conquers any pulling job.

It is drop forged with jaws of Chrome Vanadium Steel and heat treated all over. Finished in double satin nickel.

Length 20", Weight 4 lbs.

LIST PRICE, *each*.....\$4.75



ALL STEEL SCREW DRIVER NO. 146

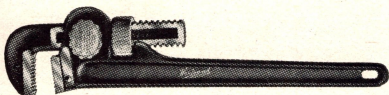
Drop Forged in One Piece

A powerful screw driver with a sure grip and a self-contained handle that cannot break, nor come loose. A heavy duty screw driver that will deliver the utmost in service. Made in 9½" length, it exerts a powerful, twisting leverage. The square blade permits using a wrench when necessary for extra leverage on stubborn screws. Like all Herbrand tools it is heat treated its entire length.

Length 9½", Weight 10 oz.

NO. 146-B, Black enamel. LIST PRICE, *each*.....\$.50

NO. 146-S, Satin nickel. LIST PRICE, *each*..... .55



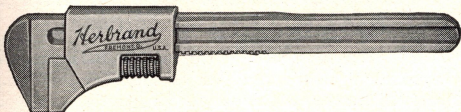
SUPER-STRENGTH PIPE WRENCHES

Drop Forged Alloy Steel Jaws

The superior design of the Herbrand pipe wrench makes it far more efficient and easy to handle than the conventional Stillson pattern. The non-breakable, open housing with free riding adjusting nut is quickly appreciated by mechanics. The hook-jaw is drop forged from a high quality alloy tool steel and will grip and hold perfectly under the stiffest pull and will not lock on the pipe.

Herbrand pipe wrenches are heat treated throughout and are finished in baked black enamel with bright polished edges.

Length	Jaw Opening	List Price Each	Length	Jaw Opening	List Price Each
6	1 $\frac{1}{8}$	\$1.25	18	3 $\frac{1}{2}$	\$3.60
8	1 $\frac{5}{8}$	1.45	24	4 $\frac{1}{4}$	5.50
10	2 $\frac{1}{8}$	1.85	36	5 $\frac{1}{2}$	10.00
14	3	2.50	48	6 $\frac{1}{2}$	16.30
			60	8 $\frac{1}{2}$	26.00

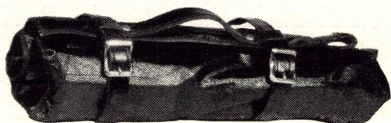
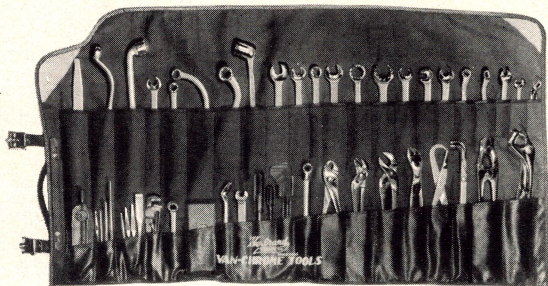


HERBRAND ADJUSTABLE WRENCHES

Drop Forged in Six Sizes from 5 $\frac{1}{2}$ " to 14"

Practical—efficient—simple in design. It serves a wide variety of uses and is especially adaptable for emergency repairs and adjustments. Careful forging, machining and heat treatment contribute to the tool's strength.

No.	Length	Jaw Opening	LIST PRICE EACH		
			Black Enamel	Satin Nickel	Polished Nickel
103	5 $\frac{1}{2}$	1 $\frac{9}{16}$	\$.40	\$.45	\$.60
107	5 $\frac{3}{4}$	1 $\frac{9}{16}$	.45	.50	.65
110	7	1 $\frac{3}{4}$	.50	.55	....
112	9	2 $\frac{1}{4}$	.60	.65	....
113	11	3 $\frac{1}{4}$	.85	.95	....
114	14	3 $\frac{1}{2}$	1.85	2.00	....



DISPLAY ROLL NO. 41

THE JOBBER SALESMAN DISPLAY ROLLS THAT SELLS MORE TOOLS

Here is one of the greatest selling helps ever offered the tool salesman. Immediately this special kit is unrolled the beautiful display and wide variety of tools rivets the attention of the potential buyer. It is intended as a "birdseye" presentation of today's most popular and comprehensive tool line and the daily use of this roll will sell more tools for you and leave with your prospects a quality impression that makes permanently satisfied buyers. It rolls into compact form and carries easily with the leather handle. This Herbrand Display Roll is available with any assortment of tools you may select, or you may obtain the roll at moderate cost to be filled with tools from your own stock. It is designed with pockets of various sizes and is constructed of substantial leatherette, flannel lined in attractive Herbrand blue and yellow.

NO. 41 Roll, containing 41 individual pockets of various sizes.
LIST PRICE, *roll only*.....\$7.00

NO. 42 Roll, containing 70 pockets of various sizes.
LIST PRICE, *roll only*.....11.00

CHART OF WRENCH AND SOCKET OPENINGS AND SIZES OF BOLTS AND NUTS THEY FIT

Wrench Opening in Inches	The Dimensions given below are the Outside Diameters of the Threads in Inches				
	S.A.E. Std. Screws and Nuts	U.S.S.		American Std.	
		Nuts	Cap Screws	Nuts	Cap Screws
$\frac{5}{16}$	....	$\frac{1}{8}$	$\frac{1}{8}$	Nos. 5 & 6	...
$\frac{3}{8}$	....	...	$\frac{3}{16}$	No. 10	...
$\frac{7}{16}$	$\frac{1}{4}$	...	$\frac{1}{4}$	No. 12 & $\frac{1}{4}$	$\frac{1}{4}$
$\frac{1}{2}$	$\frac{5}{16}$	$\frac{1}{4}$	$\frac{5}{16}$	...	$\frac{5}{16}$
$\frac{9}{16}$	$\frac{3}{8}$	...	$\frac{3}{8}$	$\frac{5}{16}$	$\frac{3}{8}$
$\frac{19}{32}$	....	$\frac{5}{16}$	...	...	...
$\frac{5}{8}$	$\frac{7}{16}$	...	$\frac{7}{16}$	$\frac{3}{8}$	$\frac{7}{16}$
$\frac{11}{16}$	....	$\frac{3}{8}$	...	...	...
$\frac{3}{4}$	$\frac{1}{2}$	...	$\frac{1}{2}$	$\frac{7}{16}$	$\frac{1}{2}$
$\frac{25}{32}$	....	$\frac{7}{16}$	...	...	...
$\frac{13}{16}$	....	...	$\frac{9}{16}$	$\frac{1}{2}$	$\frac{9}{16}$
$\frac{7}{8}$	$\frac{9}{16}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{9}{16}$	$\frac{5}{8}$
$\frac{15}{16}$	$\frac{5}{8}$	...	...	$\frac{5}{8}$	...
$\frac{31}{32}$	....	$\frac{9}{16}$	...	...	...
1	$\frac{11}{16}$	...	$\frac{3}{4}$	...	$\frac{3}{4}$
$\frac{11}{16}$	$\frac{3}{4}$	$\frac{5}{8}$	...	...	...
$\frac{11}{8}$	....	...	$\frac{7}{8}$	$\frac{3}{4}$	$\frac{7}{8}$
$\frac{11}{4}$	$\frac{7}{8}$	$\frac{3}{4}$	1	...	...
$\frac{15}{16}$	....	...	...	$\frac{7}{8}$	1
$\frac{13}{8}$	....	...	$1\frac{1}{8}$	...	...
$\frac{17}{16}$	1	$\frac{7}{8}$	...	...	...
$\frac{11}{2}$	....	...	$1\frac{1}{4}$	1	$1\frac{1}{8}$
$\frac{15}{8}$	$1\frac{1}{8}$	1	$1\frac{3}{8}$	...	...
$\frac{113}{16}$	$1\frac{1}{4}$	$\frac{1}{8}$	...	...	...
$\frac{17}{8}$	....	...	...	$1\frac{1}{4}$	...
2	$1\frac{3}{8}$	$1\frac{1}{4}$	...	...	...
$\frac{23}{16}$	$1\frac{1}{2}$	$1\frac{3}{8}$	...	...	...
$\frac{21}{4}$	....	...	...	$1\frac{1}{2}$	...
$\frac{23}{8}$	....	$1\frac{1}{2}$	...	...	...
$\frac{29}{16}$	....	$1\frac{5}{8}$	...	...	...
$\frac{25}{8}$	....	...	...	$1\frac{3}{4}$	...
$\frac{23}{4}$	....	$1\frac{3}{4}$	...	...	...
$\frac{215}{16}$	....	$1\frac{7}{8}$	...	...	...
$\frac{31}{8}$	....	2	...	...	...
$\frac{31}{2}$	....	$2\frac{1}{4}$	...	...	...

8-Point Socket Table

Opening Across Flats	For U.S.S. Square Head			American Standard	
	Nuts	Cap Screws	Set Screws	Sq. Nut	Sq. Cap Sc
$\frac{1}{4}$	....	...	$\frac{1}{4}$	...	...
$\frac{5}{16}$	....	...	$\frac{5}{16}$	...	...
$\frac{3}{8}$	....	$\frac{1}{4}$	$\frac{3}{8}$	...	...
$\frac{7}{16}$	....	$\frac{5}{16}$	$\frac{7}{16}$	$\frac{1}{4}$	$\frac{1}{4}$
$\frac{1}{2}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	...	$\frac{5}{16}$
$\frac{9}{16}$	....	$\frac{7}{16}$	$\frac{9}{16}$	$\frac{5}{16}$	$\frac{3}{8}$
$\frac{5}{8}$	....	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{8}$	$\frac{7}{16}$
$\frac{11}{16}$	$\frac{3}{8}$	$\frac{9}{16}$	...	...	...
$\frac{3}{4}$	....	$\frac{5}{8}$	$\frac{3}{4}$	$\frac{7}{16}$	$\frac{1}{2}$
$\frac{13}{16}$	....	...	...	$\frac{1}{2}$	$\frac{9}{16}$
$\frac{7}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{7}{8}$	$\frac{9}{16}$	$\frac{5}{8}$
1	....	...	1	...	$\frac{3}{4}$
$\frac{11}{16}$	$\frac{5}{8}$	...	...	...	...
$\frac{11}{4}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	...	...
$\frac{17}{16}$	$\frac{7}{8}$	...	...	...	...
$\frac{15}{8}$	1	...	...	...	...

HERBRAND SOLID OPEN END WRENCHES

Improved Design

Drop Forged from Special High Carbon Tool Steel



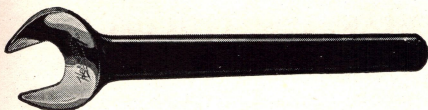
- 1—Especially built for manufacturers of industrial machinery for standard equipment purposes.
- 2—Latest improvements in construction and design.
- 3—Narrow pointed jaws and increased length provide maximum clearance and leverage.
- 4—Drop forged from a select quality of high carbon tool steel.
- 5—Heat treated their entire length providing the utmost possible endurance—strong, tough, dependable.
- 6—Ground smoothly all over and openings milled to unvarying accuracy.
- 7—Finished in Baked Black Enamel—durable and rust-resisting.
- 8—Herbrand quality throughout. They will not spread or break.
- 9—Prompt deliveries on all popular patterns and sizes.
- 10—For more than 50 years Herbrand quality and refinements in design have paralleled the requirements of the industry. Among the Herbrand wrench users are many of the nation's largest and most prominent manufacturers.

FINISH SPECIFICATIONS

UNFINISHED wrenches are milled, smoothed, heat treated and finished in baked black enamel.

FINISHED wrenches are milled, surface and edges smoothed, heat treated and opening sizes stamped on the heads. Black enamel body with heads ground bright and lacquered.

SPECIAL wrenches made to order, drop forged and machined to your own specifications.

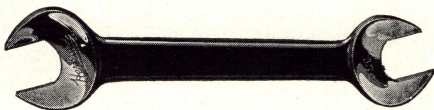


ENGINEERS' AND CAP SCREW WRENCHES

Drop Forged, 15° Angle, Single Head

Wr. No.	Open- ing Milled	For U.S. Std. Nuts	For Hex Head Cap Screws	For S.A.E. Std. Nut and Cap Screws	L'gth	Thick- ness Head	LIST PRICE	
							Unfin- ished	Fin- ished
00	$\frac{5}{16}$	$\frac{1}{8}$	$\frac{1}{8}$	...	$3\frac{1}{2}$	$\frac{5}{32}$	\$.22	\$.28
700	$\frac{3}{8}$	..	$\frac{3}{16}$	...	4	$\frac{3}{16}$	.24	.30
0	$\frac{13}{32}$	$\frac{3}{16}$	..	...	4	$\frac{3}{16}$	.24	.30
701	$\frac{7}{16}$	..	$\frac{1}{4}$	$\frac{1}{4}$	$4\frac{5}{8}$	$\frac{7}{32}$	.29	.36
1	$\frac{1}{2}$	$\frac{1}{4}$	$\frac{5}{16}$	$\frac{5}{16}$	$4\frac{5}{8}$	$\frac{7}{32}$	.29	.36
702	$\frac{9}{16}$	..	$\frac{3}{8}$	$\frac{3}{8}$	$5\frac{1}{4}$	$\frac{1}{4}$	.35	.44
2	$\frac{19}{32}$	$\frac{5}{16}$	..	...	$5\frac{1}{4}$	$\frac{1}{4}$	.35	.44
703	$\frac{5}{8}$	..	$\frac{7}{16}$	$\frac{7}{16}$	6	$\frac{9}{32}$	.42	.52
3	$\frac{11}{16}$	$\frac{3}{8}$	..	...	6	$\frac{29}{32}$	.42	.52
704	$\frac{3}{4}$	..	$\frac{1}{2}$	$\frac{1}{2}$	$6\frac{7}{8}$	$\frac{5}{16}$	.52	.64
4	$\frac{25}{32}$	$\frac{7}{16}$	..	...	$6\frac{7}{8}$	$\frac{5}{16}$	.52	.64
705	$\frac{13}{16}$	..	$\frac{9}{16}$	...	$7\frac{7}{8}$	$\frac{3}{8}$	.62	.76
5	$\frac{7}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{9}{16}$	$7\frac{7}{8}$	$\frac{3}{8}$	.62	.76
6	$\frac{31}{32}$	$\frac{9}{16}$	..	...	9	$\frac{7}{16}$	.76	.92
706	1	..	$\frac{3}{4}$	$\frac{11}{16}$	9	$\frac{7}{16}$	.76	.92
7	$\frac{1}{16}$	$\frac{5}{8}$	..	$\frac{3}{4}$	$10\frac{1}{4}$	$\frac{1}{2}$	.96	1.14
707	$\frac{1}{8}$	..	$\frac{7}{8}$	..	$10\frac{1}{4}$	$\frac{1}{2}$	.96	1.14
8	$\frac{1}{4}$	$\frac{3}{4}$	1	$\frac{7}{8}$	$11\frac{1}{2}$	$\frac{9}{16}$	1.28	1.50
708A	$\frac{1}{2}$	..	$\frac{1}{8}$	..	$11\frac{1}{2}$	$\frac{9}{16}$	1.28	1.50
9	$\frac{17}{16}$	$\frac{7}{8}$	..	1	$13\frac{1}{4}$	$\frac{21}{32}$	2.00	2.30
709	$\frac{11}{2}$	..	$\frac{1}{4}$	..	$13\frac{1}{4}$	$\frac{21}{32}$	2.00	2.30
10	$\frac{15}{8}$	1	$\frac{1}{8}$	$\frac{11}{8}$	15	$\frac{3}{4}$	2.80	3.20
11	$\frac{11}{16}$	$\frac{11}{8}$	..	$\frac{11}{4}$	$16\frac{3}{4}$	$\frac{27}{32}$	3.80	4.20
12	2	$\frac{1}{4}$	..	$\frac{1}{8}$	$18\frac{1}{2}$	$\frac{15}{16}$	5.20	5.70
13	$\frac{23}{16}$	$\frac{13}{8}$	..	$\frac{1}{2}$	$20\frac{1}{4}$	$\frac{11}{32}$	6.70	7.30
14	$\frac{23}{8}$	$\frac{11}{2}$	..	..	$22\frac{1}{4}$	$\frac{11}{8}$	8.25	9.20
15	$\frac{29}{16}$	$\frac{15}{8}$	..	..	$24\frac{5}{8}$	$\frac{17}{32}$	10.00	11.20
16	$\frac{23}{4}$	$\frac{13}{4}$	..	..	27	$\frac{15}{16}$	11.90	13.40
16A	$\frac{25}{16}$	$\frac{17}{8}$	..	..	27	$\frac{15}{16}$	11.90	13.40
17	$\frac{31}{8}$	2	..	..	30	$\frac{15}{16}$	18.70	20.50
18	$\frac{31}{2}$	$\frac{21}{4}$	..	..	33	$\frac{17}{32}$	27.50	29.50
19	$\frac{37}{8}$	$\frac{21}{2}$	..	..	39	$\frac{15}{8}$	39.75	42.00
19A	$\frac{41}{4}$	$\frac{23}{4}$	..	..	39	$\frac{15}{8}$	39.75	42.00
20	$\frac{45}{8}$	3	..	..	42	$\frac{17}{8}$	58.50	62.00
20A	5	$\frac{31}{4}$	..	..	42	$\frac{17}{8}$	58.50	62.00
21A	$\frac{53}{8}$	$\frac{31}{2}$	..	..	47	$\frac{21}{2}$	97.00	104.00
21B	$\frac{53}{4}$	$\frac{33}{4}$	..	..	47	$\frac{21}{2}$	97.00	104.00
21C	$\frac{61}{8}$	4	..	..	47	$\frac{21}{2}$	97.00	104.00
22A	$\frac{67}{8}$	$\frac{41}{2}$	..	..	52	3	192.00	204.00
22B	$\frac{75}{8}$	5	..	..	52	3	192.00	204.00

Unless otherwise specified Finished Wrenches will be supplied.

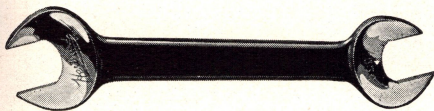


ENGINEERS' AND CAP SCREW WRENCHES

Drop Forged, 15° Angle, Double Head

Wr. No.	Openings Milled	For U.S. Std. Nuts	For Hex Hd. Cap Screws	For S.A.E. Std. Nut and Cap Screws	L'gth	LIST PRICE	
						Unfin- ished	Fin- ished
721	$\frac{5}{16}$ & $\frac{3}{8}$	$\frac{1}{8}$	$\frac{1}{8}$ & $\frac{3}{16}$	.....	4	\$.28	\$.34
21	$\frac{5}{16}$ & $\frac{13}{32}$	$\frac{1}{8}$ & $\frac{3}{16}$	$\frac{1}{8}$	.....	4	.28	.34
722	$\frac{5}{16}$ & $\frac{7}{16}$	$\frac{1}{8}$	$\frac{1}{8}$ & $\frac{1}{4}$	$\frac{1}{4}$	$4\frac{7}{8}$	.34	.42
22	$\frac{5}{16}$ & $\frac{1}{2}$	$\frac{1}{8}$ & $\frac{1}{4}$	$\frac{1}{8}$ & $\frac{5}{16}$	$\frac{5}{16}$	$4\frac{7}{8}$	.34	.42
723	$\frac{3}{8}$ & $\frac{7}{16}$	.....	$\frac{3}{16}$ & $\frac{1}{4}$	$\frac{1}{4}$	$4\frac{7}{8}$	.34	.42
723A	$\frac{3}{8}$ & $\frac{1}{2}$	.....	$\frac{3}{16}$ & $\frac{5}{16}$	$\frac{5}{16}$	$4\frac{7}{8}$	.34	.42
23	$\frac{13}{32}$ & $\frac{1}{2}$	$\frac{3}{16}$ & $\frac{1}{4}$	$\frac{3}{16}$ & $\frac{5}{16}$	$\frac{5}{16}$	$4\frac{7}{8}$	.34	.42
724	$\frac{3}{8}$ & $\frac{9}{16}$	.....	$\frac{3}{16}$ & $\frac{3}{8}$	$\frac{3}{8}$	$5\frac{3}{4}$	.40	.50
24	$\frac{13}{32}$ & $\frac{19}{32}$	$\frac{3}{16}$ & $\frac{5}{16}$	.....	$5\frac{3}{4}$	.40	.50	
725	$\frac{7}{16}$ & $\frac{1}{2}$	$\frac{1}{4}$	$\frac{1}{4}$ & $\frac{5}{16}$	$\frac{1}{4}$ & $\frac{5}{16}$	$5\frac{3}{4}$	.40	.50
725A	$\frac{7}{16}$ & $\frac{9}{16}$	$\frac{1}{4}$	$\frac{1}{4}$ & $\frac{3}{8}$	$\frac{1}{4}$ & $\frac{3}{8}$	$5\frac{3}{4}$	.40	.50
725B	$\frac{1}{2}$ & $\frac{9}{16}$	.....	$\frac{5}{16}$ & $\frac{3}{8}$	$\frac{5}{16}$ & $\frac{3}{8}$	$5\frac{3}{4}$	.40	.50
25	$\frac{1}{2}$ & $\frac{19}{32}$	$\frac{1}{4}$ & $\frac{5}{16}$	$\frac{5}{16}$	$\frac{5}{16}$	$5\frac{3}{4}$	.40	.50
726	$\frac{1}{2}$ & $\frac{5}{8}$	$\frac{1}{4}$	$\frac{5}{16}$ & $\frac{7}{16}$	$\frac{5}{16}$ & $\frac{7}{16}$	$6\frac{5}{8}$	.50	.62
26	$\frac{1}{2}$ & $\frac{11}{16}$	$\frac{1}{4}$ & $\frac{3}{8}$	$\frac{5}{16}$	$\frac{5}{16}$	$6\frac{5}{8}$	.50	.62
727	$\frac{9}{16}$ & $\frac{5}{8}$	.....	$\frac{3}{8}$ & $\frac{7}{16}$	$\frac{3}{8}$ & $\frac{7}{16}$	$6\frac{5}{8}$	.50	.62
27C	$\frac{9}{16}$ & $\frac{11}{16}$	$\frac{3}{8}$	$\frac{3}{8}$	$\frac{3}{8}$	$6\frac{5}{8}$	.50	.62
27	$\frac{19}{32}$ & $\frac{11}{16}$	$\frac{5}{16}$ & $\frac{3}{8}$	.....	$6\frac{5}{8}$	.50	.62	
728	$\frac{9}{16}$ & $\frac{3}{4}$	.....	$\frac{3}{8}$ & $\frac{1}{2}$	$\frac{3}{8}$ & $\frac{1}{2}$	$7\frac{3}{4}$	.60	.74
28	$\frac{19}{32}$ & $\frac{25}{32}$	$\frac{5}{16}$ & $\frac{7}{16}$	.....	$7\frac{3}{4}$	.60	.74	
729	$\frac{5}{8}$ & $\frac{3}{4}$	.....	$\frac{7}{16}$ & $\frac{1}{2}$	$\frac{7}{16}$ & $\frac{1}{2}$	$7\frac{3}{4}$	.60	.74
28S	$\frac{5}{8}$ & $\frac{25}{32}$	$\frac{7}{16}$	$\frac{7}{16}$	$\frac{7}{16}$	$7\frac{3}{4}$	.60	.74
29	$\frac{11}{16}$ & $\frac{25}{32}$	$\frac{3}{8}$ & $\frac{7}{16}$	.....	$7\frac{3}{4}$	.60	.74	
730	$\frac{5}{8}$ & $\frac{13}{16}$	.....	$\frac{7}{16}$ & $\frac{9}{16}$	$\frac{7}{16}$	$8\frac{5}{8}$	.74	.90
730A	$\frac{5}{8}$ & $\frac{7}{8}$	$\frac{1}{2}$	$\frac{7}{16}$ & $\frac{5}{8}$	$\frac{7}{16}$ & $\frac{9}{16}$	$8\frac{5}{8}$	.74	.90
30	$\frac{11}{16}$ & $\frac{7}{8}$	$\frac{3}{8}$ & $\frac{1}{2}$	$\frac{5}{8}$	$\frac{9}{16}$	$8\frac{5}{8}$	.74	.90
731	$\frac{3}{4}$ & $\frac{13}{16}$	.....	$\frac{1}{2}$ & $\frac{9}{16}$	$\frac{1}{2}$	$8\frac{5}{8}$	.74	.90
731A	$\frac{3}{4}$ & $\frac{7}{8}$	$\frac{1}{2}$	$\frac{1}{2}$ & $\frac{5}{8}$	$\frac{1}{2}$ & $\frac{9}{16}$	$8\frac{5}{8}$	.74	.90
31	$\frac{25}{32}$ & $\frac{7}{8}$	$\frac{7}{16}$ & $\frac{1}{2}$	$\frac{5}{8}$	$\frac{9}{16}$	$8\frac{5}{8}$	.74	.90
731B	$\frac{13}{16}$ & $\frac{7}{8}$	$\frac{1}{2}$	$\frac{9}{16}$ & $\frac{5}{8}$	$\frac{9}{16}$	$8\frac{5}{8}$	.74	.90
32	$\frac{25}{32}$ & $\frac{31}{32}$	$\frac{7}{16}$ & $\frac{9}{16}$	.....	$9\frac{5}{8}$	.90	1.10	
732	$\frac{13}{16}$ & 1	.....	$\frac{9}{16}$ & $\frac{3}{4}$	$\frac{11}{16}$	$9\frac{5}{8}$	.90	1.10
33A	$\frac{7}{8}$ & $\frac{15}{16}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{9}{16}$ & $\frac{5}{8}$	$9\frac{5}{8}$	.90	1.10
33	$\frac{7}{8}$ & $\frac{31}{32}$	$\frac{1}{2}$ & $\frac{9}{16}$	$\frac{5}{8}$	$\frac{9}{16}$	$9\frac{5}{8}$	.90	1.10
733	$\frac{7}{8}$ & 1	$\frac{1}{2}$	$\frac{5}{8}$ & $\frac{3}{4}$	$\frac{9}{16}$ & $\frac{11}{16}$	$9\frac{5}{8}$	.90	1.10
33C	$\frac{15}{16}$ & 1	.....	$\frac{3}{4}$	$\frac{5}{8}$ & $\frac{11}{16}$	$9\frac{5}{8}$	.90	1.10
34	$\frac{7}{8}$ & $\frac{11}{16}$	$\frac{1}{2}$ & $\frac{5}{8}$	$\frac{5}{8}$	$\frac{9}{16}$ & $\frac{3}{4}$	$10\frac{3}{4}$	1.12	1.36
734	$\frac{7}{8}$ & $\frac{11}{8}$	$\frac{1}{2}$	$\frac{5}{8}$ & $\frac{7}{8}$	$\frac{9}{16}$	$10\frac{3}{4}$	1.12	1.36
34A	$\frac{15}{16}$ & $\frac{11}{16}$	$\frac{5}{8}$	.....	$\frac{5}{8}$ & $\frac{3}{4}$	$10\frac{3}{4}$	1.12	1.36

"Van-Chrome" open end wrenches forged from Chrome Vanadium Steel in all the popular opening sizes, are described on pages 34 and 35.

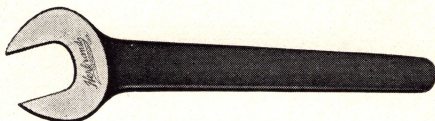


ENGINEERS' AND CAP SCREW WRENCHES

Drop Forged, 15° Angle, Double Head

Wr. No.	Openings Milled	For U.S. Std. Nuts	For Hex Hd. Cap Screws	For S.A.E. Std. Nut and Cap Screws	L'gth	LIST PRICE	
						Unfin- ished	Fin- ished
35	$3\frac{1}{32}$ & $1\frac{1}{16}$	$\frac{9}{16}$ & $\frac{5}{8}$	.....	$\frac{3}{4}$	$10\frac{3}{4}$	\$ 1.12	\$ 1.36
735	1 & $1\frac{1}{8}$	.....	$\frac{3}{4}$ & $\frac{7}{8}$	$1\frac{1}{16}$	$10\frac{3}{4}$	1.12	1.36
36	$3\frac{1}{32}$ & $1\frac{1}{4}$	$\frac{9}{16}$ & $\frac{3}{4}$	1	$\frac{7}{8}$	$12\frac{3}{8}$	1.62	1.92
736	1 & $1\frac{1}{4}$	$\frac{3}{4}$	$\frac{3}{4}$ & 1	$1\frac{1}{16}$ & $\frac{7}{8}$	$12\frac{3}{8}$	1.62	1.92
37	$1\frac{1}{16}$ & $1\frac{1}{4}$	$\frac{5}{8}$ & $\frac{3}{4}$	1	$\frac{3}{4}$ & $\frac{7}{8}$	$12\frac{3}{8}$	1.62	1.92
737	$1\frac{1}{8}$ & $1\frac{1}{4}$	$\frac{3}{4}$	$\frac{7}{8}$ & 1	$\frac{3}{4}$ & $\frac{7}{8}$	$12\frac{3}{8}$	1.62	1.92
38	$1\frac{1}{16}$ & $1\frac{7}{16}$	$\frac{5}{8}$ & $\frac{7}{8}$	.....	$\frac{3}{4}$ & 1	$14\frac{3}{8}$	2.40	2.80
738	$1\frac{1}{8}$ & $1\frac{3}{8}$	.....	$\frac{7}{8}$ & $1\frac{1}{8}$	.....	$14\frac{3}{8}$	2.40	2.80
739	$1\frac{1}{4}$ & $1\frac{3}{8}$	$\frac{3}{4}$	1 & $1\frac{1}{8}$	$\frac{7}{8}$	$14\frac{3}{8}$	2.40	2.80
39	$1\frac{1}{4}$ & $1\frac{7}{16}$	$\frac{3}{4}$ & $\frac{7}{8}$	1	$\frac{7}{8}$ & 1	$14\frac{3}{8}$	2.40	2.80
739A	$1\frac{1}{4}$ & $1\frac{1}{2}$	$\frac{3}{4}$	1 & $1\frac{1}{4}$	$\frac{7}{8}$	$14\frac{3}{8}$	2.40	2.80
739B	$1\frac{3}{8}$ & $1\frac{1}{2}$	.....	$1\frac{1}{8}$ & $1\frac{1}{4}$	.....	$14\frac{3}{8}$	2.40	2.80
40	$1\frac{1}{4}$ & $1\frac{5}{8}$	$\frac{3}{4}$ & 1	1 & $1\frac{3}{8}$	$\frac{7}{8}$ & $1\frac{1}{8}$	$15\frac{1}{2}$	3.30	3.80
41	$1\frac{7}{16}$ & $1\frac{5}{8}$	$\frac{7}{8}$ & 1	$1\frac{3}{8}$	1 & $1\frac{1}{8}$	$15\frac{1}{2}$	3.30	3.80
42	$1\frac{7}{16}$ & $1\frac{13}{16}$	$\frac{7}{8}$ & $1\frac{1}{8}$	.....	1 & $1\frac{1}{4}$	17	4.60	5.30
43	$1\frac{5}{8}$ & $1\frac{13}{16}$	1 & $1\frac{1}{8}$	$1\frac{3}{8}$	$1\frac{1}{8}$ & $1\frac{1}{4}$	17	4.60	5.30
44	$1\frac{5}{8}$ & 2	1 & $1\frac{1}{4}$	$1\frac{3}{8}$	$1\frac{1}{8}$ & $1\frac{3}{8}$	19	6.25	7.20
45	$1\frac{13}{16}$ & 2	$1\frac{1}{8}$ & $1\frac{1}{4}$	.....	$1\frac{1}{4}$ & $1\frac{3}{8}$	19	6.25	7.20
46	$1\frac{13}{16}$ & $2\frac{3}{16}$	$1\frac{1}{8}$ & $1\frac{3}{8}$	.....	$1\frac{1}{4}$ & $1\frac{1}{2}$	21	9.30	10.50
47	2 & $2\frac{3}{16}$	$1\frac{1}{4}$ & $1\frac{3}{8}$	.....	$1\frac{3}{8}$ & $1\frac{1}{2}$	21	9.30	10.50
48	2 & $2\frac{3}{8}$	$1\frac{1}{4}$ & $1\frac{1}{2}$	.....	.....	$22\frac{1}{2}$	12.50	14.00
49	$2\frac{3}{16}$ & $2\frac{3}{8}$	$1\frac{3}{8}$ & $1\frac{1}{2}$	.....	.....	$22\frac{1}{2}$	12.50	14.00
50	$2\frac{3}{16}$ & $2\frac{9}{16}$	$1\frac{3}{8}$ & $1\frac{5}{8}$	.....	.....	25	16.25	18.00
51	$2\frac{3}{8}$ & $2\frac{9}{16}$	$1\frac{1}{2}$ & $1\frac{5}{8}$	.....	.....	25	18.00	19.80
52	$2\frac{3}{8}$ & $2\frac{3}{4}$	$1\frac{1}{2}$ & $1\frac{3}{4}$	.....	.....	27	20.00	22.00
53	$2\frac{9}{16}$ & $2\frac{3}{4}$	$1\frac{5}{8}$ & $1\frac{3}{4}$	.....	.....	27	22.00	24.00
54	$2\frac{9}{16}$ & $3\frac{1}{8}$	$1\frac{5}{8}$ & 2	.....	.....	31	26.25	28.50
55	$2\frac{3}{4}$ & $3\frac{1}{8}$	$1\frac{3}{4}$ & 2	.....	.....	32	28.75	31.00
55A	$2\frac{5}{16}$ & $3\frac{1}{8}$	$1\frac{7}{8}$ & 2	.....	.....	33	28.75	31.00
56	$2\frac{3}{4}$ & $3\frac{1}{2}$	$1\frac{3}{4}$ & $2\frac{1}{4}$	.....	.....	34	37.50	40.00
57	$3\frac{1}{8}$ & $3\frac{1}{2}$	2 & $2\frac{1}{4}$	.....	.....	36	44.25	47.00
57A	$3\frac{1}{8}$ & $3\frac{7}{8}$	2 & $2\frac{1}{2}$	.....	.....	37	53.00	56.00
58	$3\frac{1}{2}$ & $3\frac{7}{8}$	$2\frac{1}{4}$ & $2\frac{1}{2}$	.....	.....	38	59.00	62.00
59	$3\frac{1}{2}$ & $4\frac{1}{4}$	$2\frac{1}{4}$ & $2\frac{3}{4}$	.....	.....	39	59.00	62.00
60	$3\frac{7}{8}$ & $4\frac{1}{4}$	$2\frac{1}{2}$ & $2\frac{3}{4}$	.....	.....	40	71.00	75.00
61	$3\frac{7}{8}$ & $4\frac{5}{8}$	$2\frac{1}{2}$ & 3	.....	.....	42	89.00	94.00
62	$4\frac{1}{4}$ & $4\frac{5}{8}$	$2\frac{3}{4}$ & 3	.....	.....	44	89.00	94.00
63	$4\frac{1}{4}$ & $5\frac{3}{8}$	$2\frac{3}{4}$ & $3\frac{1}{2}$	.....	.....	46	126.00	135.00
64	$4\frac{5}{8}$ & $5\frac{3}{8}$	3 & $3\frac{1}{2}$	.....	.....	48	146.00	155.00

Special openings milled to order. For description of finishes see page 94.



CHECK NUT, OR "THIN" WRENCHES

Drop Forged, 15° Angle, Single Head

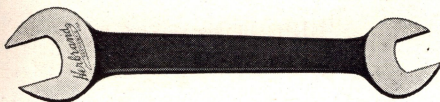
Designed for servicing check, jam or lock nuts, and adjusting screws where thin heads are required. These thin, light check nut wrenches reach nuts and bolts not accessible to the heavier type wrench. This wrench is amply strong for its intended purpose, but is not designed for heavy duty work. Drop forged from a select quality of high carbon steel and accurately milled, and heat treated, with Herbrand quality throughout.

Wr. No.	Open- ing Milled	For U.S. Std. Nuts	For Hex Head Cap Screws	For S.A.E. Std. Nuts and Cap Screws	L'gth	Thick- ness Head	LIST PRICE	
							Unfin- ished	Fin- ished
600	$\frac{7}{16}$	..	$\frac{1}{4}$	$\frac{1}{4}$	$4\frac{5}{8}$	$\frac{5}{32}$	\$.30	\$.36
601	$\frac{1}{2}$	$\frac{1}{4}$	$\frac{5}{16}$	$\frac{5}{16}$	$4\frac{5}{8}$	$\frac{5}{32}$	.30	.36
602	$\frac{19}{32}$	$\frac{5}{16}$	..	...	$5\frac{1}{4}$	$\frac{11}{64}$	.37	.44
603	$\frac{11}{16}$	$\frac{3}{8}$	..	...	6	$\frac{3}{16}$	.44	.52
604	$\frac{25}{32}$	$\frac{7}{16}$	..	...	$6\frac{7}{8}$	$\frac{7}{32}$	.55	.64
605	$\frac{7}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{9}{16}$	$7\frac{3}{4}$	$\frac{1}{4}$	.66	.76
606	$\frac{31}{32}$	$\frac{9}{16}$	..	...	$8\frac{7}{8}$	$\frac{9}{32}$	.78	.90
607	$\frac{11}{16}$	$\frac{5}{8}$	..	$\frac{3}{4}$	$10\frac{1}{8}$	$\frac{5}{16}$	.94	1.08
608	$\frac{11}{4}$	$\frac{3}{4}$	1	$\frac{7}{8}$	$11\frac{1}{2}$	$\frac{3}{8}$	1.20	1.36
609	$\frac{17}{16}$	$\frac{7}{8}$	..	1	$13\frac{1}{4}$	$\frac{7}{16}$	1.66	1.84
610	$1\frac{5}{8}$	1	$1\frac{3}{8}$	$1\frac{1}{8}$	15	$\frac{1}{2}$	2.40	2.60

In stock, also, with openings for Whitworth Standard and Metric Measure. Special openings to order, without extra charge, in lots of 100 or more of any size.



HERB SAYS: *Herbrand Solid Open End Wrenches are built to a new improved design for easier accessibility and more leverage. They are drop forged from select high carbon steel and heat treated throughout for dependability under all working conditions.*



CHECK NUT, OR "THIN" WRENCHES

Drop Forged, 15° Angle, Double End

Wr. No.	Open- ings Milled	For U.S. Std. Nuts	For Hex. Hd. Cap Screws	For S.A.E. Std. Nuts and Cap Screws	L'gth	Thick- ness Heads	LIST PRICE	
							Unfin- ished	Fin- ished
623F	$\frac{3}{8}$ & $\frac{7}{16}$	.....	$\frac{3}{16}$ & $\frac{1}{4}$	$\frac{1}{4}$	$5\frac{1}{4}$	$\frac{5}{32}$	\$.42	\$.50
623 E	$\frac{3}{8}$ & $\frac{1}{2}$	.....	$\frac{3}{16}$ & $\frac{5}{16}$	$\frac{5}{16}$	$5\frac{1}{4}$	$\frac{5}{32}$	.42	.50
623	$\frac{13}{32}$ & $\frac{1}{2}$	$\frac{3}{16}$ & $\frac{1}{4}$	$\frac{5}{16}$	$\frac{5}{16}$	$5\frac{1}{4}$	$\frac{5}{32}$	.42	.50
624	$\frac{13}{32}$ & $\frac{19}{32}$	$\frac{3}{16}$ & $\frac{5}{16}$	.....	$\frac{5}{16}$	$5\frac{1}{4}$	$\frac{5}{32}$	.42	.50
623D	$\frac{7}{16}$ & $\frac{1}{2}$	$\frac{1}{4}$	$\frac{1}{4}$ & $\frac{5}{16}$	$\frac{1}{4}$ & $\frac{5}{16}$	$5\frac{1}{4}$	$\frac{5}{32}$	.42	.50
625 A	$\frac{1}{2}$ & $\frac{9}{16}$	$\frac{1}{4}$	$\frac{5}{16}$ & $\frac{3}{8}$	$\frac{5}{16}$ & $\frac{3}{8}$	$5\frac{1}{4}$	$\frac{5}{32}$	.42	.50
625	$\frac{1}{2}$ & $\frac{19}{32}$	$\frac{1}{4}$ & $\frac{5}{16}$	$\frac{5}{16}$	$\frac{5}{16}$	$5\frac{1}{4}$	$\frac{5}{32}$	.42	.50
626	$\frac{1}{2}$ & $\frac{11}{16}$	$\frac{1}{4}$ & $\frac{3}{8}$	$\frac{5}{16}$	$\frac{5}{16}$	$6\frac{1}{8}$	$\frac{3}{16}$	.54	.64
626S	$\frac{9}{16}$ & $\frac{5}{8}$	.....	$\frac{3}{8}$ & $\frac{7}{16}$	$\frac{3}{8}$ & $\frac{7}{16}$	$6\frac{1}{8}$	$\frac{3}{16}$	.54	.64
626 X	$\frac{9}{16}$ & $\frac{11}{16}$	$\frac{3}{8}$	$\frac{3}{8}$	$\frac{3}{8}$	$6\frac{1}{8}$	$\frac{3}{16}$	.54	.64
627	$\frac{19}{32}$ & $\frac{11}{16}$	$\frac{5}{16}$ & $\frac{3}{8}$	.....	$6\frac{1}{8}$	$\frac{3}{16}$	.54	.64	
628	$\frac{19}{32}$ & $\frac{25}{32}$	$\frac{5}{16}$ & $\frac{7}{16}$	.....	$6\frac{1}{8}$	$\frac{3}{16}$	.54	.64	
629D	$\frac{5}{8}$ & $\frac{3}{4}$	.....	$\frac{7}{16}$ & $\frac{1}{2}$	$\frac{7}{16}$ & $\frac{1}{2}$	$7\frac{3}{8}$	$\frac{7}{32}$	.60	.72
629	$\frac{11}{16}$ & $\frac{25}{32}$	$\frac{3}{8}$ & $\frac{7}{16}$	.....	.....	$7\frac{3}{8}$	$\frac{7}{32}$	.60	.72
630	$\frac{11}{16}$ & $\frac{7}{8}$	$\frac{3}{8}$ & $\frac{1}{2}$	$\frac{5}{8}$	$\frac{7}{8}$	$7\frac{3}{8}$	$\frac{7}{32}$	.60	.72
630 E	$\frac{3}{4}$ & $\frac{7}{8}$	$\frac{1}{2}$	$\frac{1}{2}$ & $\frac{5}{8}$	$\frac{1}{2}$ & $\frac{9}{16}$	$7\frac{3}{8}$	$\frac{7}{32}$	.60	.72
631	$\frac{25}{32}$ & $\frac{7}{8}$	$\frac{7}{16}$ & $\frac{1}{2}$	$\frac{5}{8}$	$\frac{9}{16}$	$7\frac{3}{8}$	$\frac{7}{32}$	.60	.72
632	$\frac{25}{32}$ & $\frac{31}{32}$	$\frac{7}{16}$ & $\frac{9}{16}$	.....	.....	$8\frac{7}{8}$	$\frac{1}{4}$	.96	1.12
633	$\frac{7}{8}$ & $\frac{31}{32}$	$\frac{1}{2}$ & $\frac{9}{16}$	$\frac{5}{8}$	$\frac{9}{16}$	$8\frac{7}{8}$	$\frac{1}{4}$	.96	1.12
634	$\frac{7}{8}$ & $\frac{11}{16}$	$\frac{1}{2}$ & $\frac{5}{8}$	$\frac{5}{8}$	$\frac{9}{16}$ & $\frac{3}{4}$	$8\frac{7}{8}$	$\frac{1}{4}$	.96	1.12
632 X	$\frac{15}{16}$ & 1	.....	$\frac{3}{4}$	$\frac{5}{8}$ & $\frac{11}{16}$	$8\frac{7}{8}$	$\frac{1}{4}$	.96	1.12
635	$\frac{31}{32}$ & $\frac{11}{16}$	$\frac{9}{16}$ & $\frac{5}{8}$	.....	$\frac{3}{4}$	$10\frac{5}{8}$	$\frac{9}{32}$	1.48	1.68
636	$\frac{31}{32}$ & $\frac{1}{4}$	$\frac{9}{16}$ & $\frac{3}{4}$	1	$\frac{7}{8}$	$10\frac{5}{8}$	$\frac{9}{32}$	1.48	1.68
635 E	1 & $\frac{1}{4}$	$\frac{5}{8}$ & $\frac{3}{4}$	$\frac{3}{4}$ & 1	$\frac{11}{16}$ & $\frac{7}{8}$	$10\frac{5}{8}$	$\frac{9}{32}$	1.48	1.68
637	$\frac{11}{16}$ & $\frac{1}{4}$	$\frac{5}{8}$ & $\frac{3}{4}$	1	$\frac{3}{4}$ & $\frac{7}{8}$	$10\frac{5}{8}$	$\frac{9}{32}$	1.48	1.68
635 G	$\frac{1}{8}$ & $\frac{1}{4}$	$\frac{7}{8}$ & $\frac{3}{4}$	$\frac{7}{8}$ & 1	$\frac{7}{8}$	$10\frac{5}{8}$	$\frac{9}{32}$	1.48	1.68
638	$\frac{1}{16}$ & $\frac{17}{16}$	$\frac{5}{8}$ & $\frac{7}{8}$	.....	$\frac{3}{4}$ & 1	13	$\frac{3}{8}$	2.35	2.60
639	$\frac{1}{4}$ & $\frac{17}{16}$	$\frac{3}{4}$ & $\frac{7}{8}$	1	$\frac{7}{8}$ & 1	13	$\frac{3}{8}$	2.35	2.60
640	$\frac{1}{4}$ & $\frac{15}{8}$	$\frac{3}{4}$ & 1	1 & $1\frac{3}{8}$	$\frac{7}{8}$ & $1\frac{1}{8}$	13	$\frac{3}{8}$	2.35	2.60

For description of finishes see page 94. Extra thin and long "Van-Chrome" Tappet Wrenches drop forged from Chrome Vanadium Steel are shown on pages 30 and 31.



GENERAL SERVICE WRENCHES

Drop Forged, 22 1/2° Angle, Double Head

Wr. No.	Open- ings Milled	For U.S. Std. Nuts	For Hex. Hd. Cap Screws	For S.A.E. Std. Nuts and Cap Screws	L'gth	Thick- ness Heads	LIST PRICE	
							Unfin- ished	Fin- ished
675 C	1/4 & 5/16	1/8	1/8	.....	6 3/4	1/4	\$.45	\$.54
675 B	3/8 & 7/16	.....	3/16 & 1/4	1/4	6 3/4	1/4	.45	.54
675 A	3/8 & 1/2	.....	3/16 & 5/16	5/16	6 3/4	1/4	.45	.54
675	13/32 & 1/2	3/16 & 1/4	5/16	5/16	6 3/4	1/4	.45	.54
677S	7/16 & 1/2	1/4	1/4 & 5/16	1/4 & 5/16	7 1/2	9/32	.58	.68
677 B	1/2 & 9/16	1/4	5/16 & 3/8	5/16 & 3/8	7 1/2	9/32	.58	.68
677	1/2 & 5/8	1/4	5/16 & 7/16	5/16 & 7/16	7 1/2	9/32	.58	.68
679 B	9/16 & 19/32	5/16	3/8	3/8	8 1/4	5/16	.73	.86
679S	9/16 & 5/8	.....	3/8 & 7/16	3/8 & 7/16	8 1/4	5/16	.73	.86
679 A	9/16 & 11/16	3/8	3/8	3/8	8 1/4	5/16	.73	.86
679 D	19/32 & 11/16	5/16 & 3/8	.....	.....	8 1/4	5/16	.73	.86
679	5/8 & 11/16	3/8	7/16	7/16	8 1/4	5/16	.73	.86
679 C	5/8 & 3/4	.....	7/16 & 1/2	7/16 & 1/2	8 1/4	5/16	.73	.86
681	11/16 & 27/32	3/8	.....	.....	9 1/2	3/8	.93	1.10
681 B	3/4 & 13/16	.....	1/2 & 9/16	1/2	9 1/2	3/8	.93	1.10
681 A	3/4 & 7/8	1/2	1/2 & 5/8	1/2 & 9/16	9 1/2	3/8	.93	1.10
681 D	25/32 & 7/8	7/16 & 1/2	5/8	9/16	9 1/2	3/8	.93	1.10
683	27/32 & 15/16	.....	.....	5/8	10 7/8	7/16	1.16	1.40
683 D	7/8 & 15/16	1/2	5/8	9/16 & 5/8	10 7/8	7/16	1.16	1.40
683 B	7/8 & 1	1/2	5/8 & 3/4	9/16 & 11/16	10 7/8	7/16	1.16	1.40
683 C	7/8 & 1 1/16	1/2 & 5/8	5/8	9/16 & 3/4	10 7/8	7/16	1.16	1.40
683 A	15/16 & 1	.....	3/4	5/8 & 11/16	10 7/8	7/16	1.16	1.40
685	1 & 1 1/8	.....	3/4 & 7/8	1 1/16	12 1/8	1 1/2	1.65	2.00
685 C	1 1/16 & 1 1/4	5/8 & 3/4	1	3/4 & 7/8	12 1/8	1 1/2	1.65	2.00
685 B	1 1/8 & 1 1/4	3/4	7/8 & 1	7/8	12 1/8	1 1/2	1.65	2.00

Special openings milled to order. Refer to page 93 for chart of wrench opening sizes and the nuts and bolts they fit. Also information on American Standard sizes.

We manufacture special wrenches, made to blue print, of all kinds.



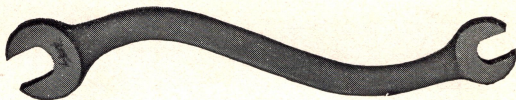
TEXTILE MACHINE WRENCHES

Drop Forged, 22 1/2° Angle, Double Head

Wr. No.	Open- ings Milled	For U.S. Std. Nuts	For Hex. Hd. Cap Screws	For S.A.E. Std. Nuts and Cap Screws	L'gth	Thick- ness Heads	LIST PRICE	
							Unfin- ished	Fin- ished
760 A	5/16 & 1/2	1/8 & 1/4	1/8 & 5/16	5/16	4 3/4	1/4	\$.42	\$.50
760 B	13/32 & 1/2	3/16 & 1/4	15/12	5/16	4 3/4	1/4	.42	.50
760 C	13/32 & 19/32	3/16 & 5/16	.....	.....	4 3/4	1/4	.42	.50
760 Y	7/16 & 1/2	1/4	1/4 & 5/16	1/4 & 5/16	4 3/4	1/4	.42	.50
761 X	1/2 & 9/16	1/4	5/16 & 3/8	5/16 & 3/8	5 3/4	5/16	.52	.62
761 A	1/2 & 19/32	1/4 & 5/16	5/16	5/16	5 3/4	5/16	.52	.62
761	1/2 & 5/8	1/4	5/16 & 7/16	5/16 & 7/16	5 3/4	5/16	.52	.62
761 B	1/2 & 11/16	1/4 & 3/8	5/16	5/16	5 3/4	5/16	.52	.62
761 Z	9/16 & 5/8	.....	3/8 & 7/16	3/8 & 7/16	5 3/4	5/16	.52	.62
761 C	19/32 & 11/16	5/16 & 3/8	.....	.....	5 3/4	5/16	.52	.62
762 A	19/32 & 25/32	5/16 & 7/16	.....	.....	7	3/8	.68	.80
762 Y	5/8 & 3/4	.....	7/16 & 1/2	7/16 & 1/2	7	3/8	.68	.80
762 B	11/16 & 25/32	3/8 & 7/16	.....	.....	7	3/8	.68	.80
762 C	11/16 & 7/8	3/8 & 1/2	5/8	9/16	7	3/8	.68	.80
763 Y	3/4 & 7/8	1/2	1/2 & 5/8	1/2 & 9/16	8 1/4	7/16	.90	1.06
763 A	25/32 & 7/8	7/16 & 1/2	5/8	9/16	8 1/4	7/16	.90	1.06
763 B	25/32 & 31/32	7/16 & 9/16	.....	.....	8 1/4	7/16	.90	1.06
763 C	7/8 & 31/32	1/2 & 9/16	5/8	9/16	8 1/4	7/16	.90	1.06
764	7/8 & 1	1/2	5/8 & 3/4	9/16 & 11/16	9 1/2	1/2	1.20	1.44
764 A	7/8 & 1 1/16	1/2 & 5/8	5/8	9/16 & 3/4	9 1/2	1/2	1.20	1.44
764 Z	15/16 & 1	.....	3/4	5/8 & 11/16	9 1/2	1/2	1.20	1.44
764 D	15/16 & 1 1/16	5/8	.....	5/8 & 3/4	9 1/2	1/2	1.20	1.44
764 B	31/32 & 1 1/16	9/16 & 5/8	.....	3/4	9 1/2	1/2	1.20	1.44
765 A	1 1/16 & 1 1/4	5/8 & 3/4	1	3/4 & 7/8	11	9/16	1.60	1.92
765 B	1 1/16 & 1 7/16	5/8 & 7/8	.....	3/4 & 1	11	9/16	1.60	1.92
765 C	1 1/4 & 1 7/16	3/4 & 7/8	1	7/8 & 1	11	9/16	1.60	1.92

Special openings milled to order. For description of finishes, see page 94. Unless otherwise specified Finished Wrenches will always be supplied.

All Herbrand wrenches are heat treated throughout to insure maximum dependability under severe working conditions.



CAR WRENCHES

Drop Forged, 22 1/2° Angle, Double Head

Long Leverage

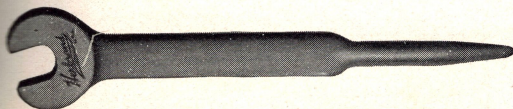
Improved design with narrow, pointed jaws for greater accessibility and more efficient handling.

These wrenches are especially designed for car and truck work, but they are adaptable to general service. They are built extra heavy for severe work. The black, hardened wrenches are heat treated their entire length and finished in rust-resisting baked black enamel. Special openings milled to order.

Wrench No.	Openings Milled	For U.S. Std. Nuts	Length	Thick-ness Head	LIST PRICE	
					Black, Unhard-ened	Black, Hard-ened
367	23/32 & 29/32	3/8 & 1/2	12	1/2	\$1.10	\$1.50
370	15/16 & 1 1/8	1/2 & 5/8	19	9/16	1.90	2.50
371	15/16 & 1 5/16	1/2 & 3/4	19	9/16	2.30	3.10
373	1 1/8 & 1 5/16	5/8 & 3/4	20	19/32	2.30	3.10
374	1 1/8 & 1 1/2	5/8 & 7/8	21	19/32	2.70	3.70
376	1 5/16 & 1 1/2	3/4 & 7/8	21	19/32	2.70	3.70
377	1 5/16 & 1 11/16	3/4 & 1	22	5/8	3.30	4.50
379	1 1/2 & 1 11/16	7/8 & 1	22	5/8	3.30	4.50
380	1 1/2 & 1 7/8	7/8 & 1 1/8	23	5/8	3.90	5.30
382	1 11/16 & 1 7/8	1 & 1 1/8	23	5/8	3.90	5.30
383	1 11/16 & 2 1/16	1 & 1 1/4	24	5/8	4.50	6.30
385	1 7/8 & 2 1/16	1 1/8 & 1 1/4	24	5/8	4.50	6.30
387	1 7/8 & 2 7/16	1 1/8 & 1 1/2	25	11/16	6.80	9.00
389	2 1/16 & 2 7/16	1 1/4 & 1 1/2	25	11/16	6.80	9.00

Wrenches with openings milled for American Standard bolts and nuts are available in both our "Van-Chrome" and Carbon Steel lines. See page 93 for chart of sizes.

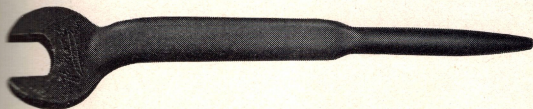
Dies are on hand for producing many special wrenches and tools not shown in this booklet. Your inquiries for special tools of any kind are solicited.



CONSTRUCTION WRENCHES

Drop Forged, 15° Angle

Wrench No.	Opening Milled	For U.S. Std. Nut	Length	Thick-ness Head	LIST PRICE	
					Black, Unhard-ened	Black, Hard-ened
221	$\frac{1}{2}$	$\frac{1}{4}$	8	$\frac{3}{8}$	\$.56	\$.70
222	$\frac{19}{32}$	$\frac{5}{16}$	8	$\frac{3}{8}$	.56	.70
223	$\frac{11}{16}$	$\frac{3}{8}$	$9\frac{1}{2}$	$\frac{7}{16}$	.70	.90
224	$\frac{25}{32}$	$\frac{7}{16}$	$9\frac{1}{2}$	$\frac{7}{16}$	.70	.90
225	$\frac{7}{8}$	$\frac{1}{2}$	11	$\frac{1}{2}$	.90	1.16
226	$\frac{31}{32}$	$\frac{9}{16}$	11	$\frac{1}{2}$	.90	1.16
227	$\frac{11}{16}$	$\frac{5}{8}$	13	$\frac{9}{16}$	1.14	1.50
228	$\frac{11}{4}$	$\frac{3}{4}$	15	$\frac{5}{8}$	1.52	2.00
229	$\frac{17}{16}$	$\frac{7}{8}$	17	$\frac{11}{16}$	1.96	2.60
230	$\frac{15}{8}$	1	19	$\frac{3}{4}$	2.50	3.50
231	$\frac{113}{16}$	$\frac{11}{8}$	21	$\frac{7}{8}$	3.40	5.00
232	2	$\frac{11}{4}$	21	$\frac{7}{8}$	3.40	5.00



STRUCTURAL WRENCHES

Drop Forged, Straight Opening

Wrench No.	Opening Milled	For U.S. Std. Nut	Length	Thick-ness Head	Offset	LIST PRICE	
						Black, Unhard-ened	Black, Hard-ened
901	$\frac{17}{32}$	$\frac{1}{4}$	10	$\frac{3}{8}$	$\frac{13}{16}$	\$.66	\$.80
902	$\frac{5}{8}$	$\frac{5}{16}$	10	$\frac{3}{8}$	$\frac{13}{16}$	.66	.80
903	$\frac{23}{32}$	$\frac{3}{8}$	$11\frac{7}{8}$	$\frac{7}{16}$	$\frac{7}{8}$	.80	1.04
904	$\frac{13}{16}$	$\frac{7}{16}$	$11\frac{7}{8}$	$\frac{7}{16}$	$\frac{7}{8}$	.80	1.04
905	$\frac{29}{32}$	$\frac{1}{2}$	$13\frac{3}{4}$	$\frac{1}{2}$	1	.94	1.30
906	1	$\frac{9}{16}$	$13\frac{3}{4}$	$\frac{1}{2}$	1	.94	1.30
907	$\frac{17}{64}$	$\frac{5}{8}$	$15\frac{5}{8}$	$\frac{9}{16}$	$\frac{11}{8}$	1.22	1.70
908	$\frac{119}{64}$	$\frac{3}{4}$	$17\frac{1}{2}$	$\frac{5}{8}$	$\frac{11}{4}$	1.56	2.20
909	$\frac{11}{2}$	$\frac{7}{8}$	$19\frac{3}{8}$	$\frac{11}{16}$	$\frac{15}{16}$	2.10	2.90
910	$\frac{111}{16}$	1	$21\frac{1}{4}$	$\frac{25}{32}$	$\frac{13}{8}$	2.70	3.90
908A	$\frac{17}{8}$	$\frac{11}{8}$	$21\frac{1}{4}$	$\frac{25}{32}$	$\frac{13}{8}$	2.70	3.90
911	$\frac{17}{8}$	$\frac{11}{8}$	23	$\frac{7}{8}$	$\frac{11}{2}$	4.50	6.00
912	$\frac{21}{16}$	$\frac{11}{4}$	23	$\frac{7}{8}$	$\frac{11}{2}$	4.50	6.00

WEIGHTS OF SOLID WRENCHES

Following table indicates approximately the weights of solid wrenches listed on pages 95 to 103. Its use will be helpful in making freight cost computations.

Wrench No.	Weight per Dozen Lbs. Ozs.		Wrench No.	Weight per Dozen Lbs. Ozs.		Wrench No.	Weight per Dozen Lbs. Ozs.	
00	....	8	44	94	12	604	2	6
0	....	11	45	93	9	605	3	13
1	1	5	46	115	3	606	5	..
2	2	4	47	114	..	607	7	5
3	3	6	48	156	..	608	13	3
4	5	..	49	153	9	609	20	11
5	6	10	50	159	..	610	30	9
6	9	2	51	177	..			
7	11	13	52	201	..	623	1	10
8	18	15	53	218	6	624	1	9
9	29	6	54	288	..	625	1	7
10	47	6	55	288	10	626	2	10
11	55	12	55A	296	..	627	2	6
12	81	9	56	372	9	628	2	2
13	97	12	57	408	..	629	4	5
14	121	12	57A	465	..	630	4	8
15	138	..	58	540	..	631	4	6
16	172	3	59	510	..	632	6	13
16A	163	3	60	576	..	633	6	9
17	240	..	61	792	..	634	6	15
18	344	6	62	793	..	635	13	5
19	414	..	63	1140	..	636	12	8
19A	408	..	64	1362	..	637	12	4
20	624	..				638	25	12
20A	582	..	221	4	3	639	23	9
21A	1140	..	222	4	3	640	21	10
21B	1128	..	223	6	10			
21C	1026	..	224	6	10	675	2	6
22A	2004	..	225	10	13	677	3	4
22B	1872	..	226	10	13	679	5	9
			227	16	13	681	8	10
			228	24	5	683	12	7
21	....	11	229	38	11	685	19	12
22	1	9	230	52	3			
23	1	10	231	74	6	760	2	1
24	2	7	232	74	6	761	3	8
25	2	7				762	6	1
26	3	12	367	18	12	763	9	..
27	3	13	370	42	..	764	14	9
28	5	9	371	42	..	765	22	3
29	5	9	373	49	8			
30	7	14	374	64	8	901	3	7
31	7	11	376	64	8	902	3	7
32	11	8	377	76	8	903	7	2
33	11	4	379	76	8	904	7	2
34	15	4	380	84	12	905	12	12
35	14	14	382	84	12	906	15	6
36	22	8	383	90	12	907	21	8
37	22	3	385	90	12	908	30	..
38	32	1	387	117	..	909	43	3
39	31	8	389	117	..	910	60	1
40	45	9				910A	60	1
41	43	3	601	....	15	911	84	..
42	67	3	602	1	6	912	84	..
43	66	..	603	2	..			

